

Db	2101	TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCCAGCTCCCTGTGG	2160
Qy	2206	AAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2265
Db	2161	AAGAGCAAGCTACTTGTGCTAGCTACCAGGAGATCCCTTTTACCACATCTGGAACGGCACC	2220
Qy	2266	CAGCGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2325
Db	2221	CAGCAGTATCTGCACTGCACCTTCACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG	2280
Qy	2326	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2385
Db	2281	GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC	2340
Qy	2386	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTTC	2445
Db	2341	AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGTTC	2400
Qy	2446	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2505
Db	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAGATCATC	2460
Qy	2506	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTC	2565
Db	2461	GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCAGAACTT	2520
Qy	2566	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2625
Db	2521	CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC	2580
Qy	2626	AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG	2685
Db	2581	AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG	2640
Qy	2686	GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGCTGAGGC	2745
Db	2641	GCCGGACTGGGCCAACCAGATGCTGGCCTCTTCACGGTGTGCGGAGGCCGAGTGTTGAGAC	2700
Qy	2746	CGGCCAG	2752
Db	2701	CAGCCAG	2707

RESULT 2

US-09-306-902A-1

; Sequence 1, Application US/09306902A

; Patent No. 6277585

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:



Db	301	ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTGGGGCTGGAG	360
Qy	406	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	465
Db	361	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC	420
Qy	466	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	525
Db	421	TACATCCGGATTGCCTATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG	480
Qy	526	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	585
Db	481	TCCTGGAGCAAGGCATTGTACTACCTTGTCGCCCCCAGAAGGAATCCCCCAGCTGAG	540
Qy	586	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	645
Db	541	GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC	600
Qy	646	ACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACCTACACC	705
Db	601	ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCGCCTGGCCGACACGGCCAACCTACACC	660
Qy	706	TGCGTGGCCAAGAACATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTCATCGTCTAC	765
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTCAATTGTTTAT	720
Qy	766	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	825
Db	721	GTGAACGGTGGGTGGTTCGACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780
Qy	826	GGCTGGCAGAAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	885
Db	781	GGCTGGCAGAAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC	840
Qy	886	TGTGAGGGGCAGAAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC	945
Db	841	TGTGAGGGGCAGAAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCAGTGGATGGGAGC	900
Qy	946	TGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	1005
Db	901	TGGAGTTCGTGGAGTAAGTGGTCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960
Qy	1006	GAGTGTCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1065
Db	961	GAGTGTCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTGGGGTGTGACCTGGAC	1020
Qy	1066	ACCCGCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1125
Db	1021	ACCCGCAACTGTACCAAGTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT	1080
Qy	1126	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTTGTCTCATC	1185
Db	1081	CTCTACATCGGCCTTGTGCTGTGGCTGTGTGCCTCTTCTGCTGTTGCTGGCCCTTGA	1140
Qy	1186	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1245

Db	1141	CTCATTACTGTGTCGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200
Qy	1246	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1305
Db	1201	ACCTCGGGCTTCCAGCCTGTGAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1306	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1365
Db	1261	ACCATCCAGCCGAGCCTCAGCACCACCCTACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1366	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1425
Db	1321	CAGGATGGACCCAGCCCCAAGTTCCAGCTCTCTAATGGTCACCTGCTCAGCCCCACTGGGG	1380
Qy	1426	GGCGGCCGCCACA'CACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1485
Db	1381	AGTGGCCGCCATACGTTGCACCACAGCTCACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1486	CGCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1545
Db	1441	CGCTCTCCACCCAAA'CACTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC	1500
Qy	1546	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1605
Db	1501	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1606	ATCCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1665
Db	1561	ATACCCCCGGATGCCATACCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1666	CCGGAAGACGTGAGGTTGCCCTAGCTGGCTGTGAGACCCTGCTGAGTCCCATCGTTAGC	1725
Db	1621	CCAGAAGACGTGAGGTTGCCCTAGCTGGCTGTGAGACCCTGCTGAGTCCAGTTCGTTAGC	1680
Qy	1726	TGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1785
Db	1681	TGTGGGGCCCCAGGAGTCCTGCTCACCCGGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1786	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1845
Db	1741	GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1846	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1905
Db	1801	GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTTCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1906	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCGGCTTTGCCCTGGTGGGAGAGGCC	1965
Db	1861	GCCGGGGCCTGCTATGTCTTCACGGAGCAGCTGGGCGGCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1966	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	2025
Db	1921	CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCTCCCGTGGCCTGTACG	1980
Qy	2026	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2085
Db	1981	TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040

Qy 2086 GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCAC 2145  
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 Db 2041 GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCCTGCAC 2100  
 Qy 2146 TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGG 2205  
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 Db 2101 TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCAGCTCCCTGTGG 2160  
 Qy 2206 AAGAGTAAGCTCCTTGTTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG 2265  
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 Db 2161 AAGAGCAAGCTACTTGTTCAGCTACCAGGAGATCCCCTTTTACCACATCTGGAACGGCACC 2220  
 Qy 2266 CAGCGGTACTTGCACCTTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG 2325  
 |||||  
 Db 2221 CAGCAGTATCTGCACCTTGCACCTTACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG 2280  
 Qy 2326 GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC 2385  
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 Db 2281 GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC 2340  
 Qy 2386 AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC 2445  
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 Db 2341 AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGTC 2400  
 Qy 2446 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT 2505  
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 Db 2401 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAAGATCATC 2460  
 Qy 2506 TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCAGAACTC 2565  
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 Db 2461 GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCAGAACTT 2520  
 Qy 2566 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC 2625  
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 Db 2521 CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC 2580  
 Qy 2626 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2685  
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 Db 2581 AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG 2640  
 Qy 2686 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGCTGAGGC 2745  
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 Db 2641 GCCGGACTGGGCCAACCAGATGCTGGCCTCTTCACGGTGTGCGGAGGCCGAGTGTTGAGAC 2700  
 Qy 2746 CGGCCAG 2752  
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 Db 2701 CAGCCAG 2707

RESULT 3

US-08-808-982-2

; Sequence 2, Application US/08808982

; Patent No. 5939271

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; APPLICANT: Leonardo, E. David

```

; APPLICANT: Hink, Lindsay
; APPLICANT: Masu, Masayuki
; APPLICANT: Kazuko, Keino-Masu
; TITLE OF INVENTION: Netrin Receptors
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
; STREET: 268 BUSH STREET, SUITE 3200
; CITY: SAN FRANCISCO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/808,982
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: OSMAN, RICHARD A
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: UC96-217
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 343-4341
; TELEFAX: (415) 343-4342
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1787 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-808-982-2

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Query Match          56.8%; Score 1562.4; DB 2; Length 1787;
Best Local Similarity 98.5%; Pred. No. 0;
Matches 1661; Conservative 0; Mismatches 16; Indels 9; Gaps 8;

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Qy      1070 GCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1129
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Db      1 GCAACTGTACCAAGTGACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1130 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 1189
          |||
Db      60 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 119

Qy      1190 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1249
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Db      120 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy      1250 CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 1308
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Db      180 CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 239

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Qy	1309	ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG	1368
Db	240	ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG	299
Qy	1369	GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC	1428
Db	300	GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC	359
Qy	1429	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	1488
Db	360	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	419
Qy	1489	CTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	1548
Db	420	CTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	479
Qy	1549	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC	1608
Db	480	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC	539
Qy	1609	CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	1668
Db	540	CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	599
Qy	1669	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1728
Db	600	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1729	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1788
Db	660	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1789	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG	1848
Db	720	CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG	778
Qy	1849	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCC	1908
Db	779	GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1909	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1968
Db	838	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1969	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	2028
Db	898	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957
Qy	2029	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2088
Db	958	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2089	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	2148
Db	1018	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	1076
Qy	2149	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAG	2208





```

;      ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
;      STREET: 268 BUSH STREET, SUITE 3200
;      CITY: SAN FRANCISCO
;      STATE: CALIFORNIA
;      COUNTRY: USA
;      ZIP: 94104
;
;      COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.30
;
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/306,902A
;      FILING DATE: 07-May-1999
;      CLASSIFICATION: <Unknown>
;
;      ATTORNEY/AGENT INFORMATION:
;      NAME: OSMAN, RICHARD A
;      REGISTRATION NUMBER: 36,627
;      REFERENCE/DOCKET NUMBER: UC96-217
;
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (415) 343-4341
;      TELEFAX: (415) 343-4342
;
;      INFORMATION FOR SEQ ID NO: 2:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 1787 base pairs
;      TYPE: nucleic acid
;      STRANDEDNESS: double
;      TOPOLOGY: linear
;
;      MOLECULE TYPE: cDNA
;
;      SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-306-902A-2

```

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Query Match          56.8%;  Score 1562.4;  DB 3;  Length 1787;
Best Local Similarity 98.5%;  Pred. No. 0;
Matches 1661;  Conservative 0;  Mismatches 16;  Indels 9;  Gaps 8;

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Qy      1070 GCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1129
          ||||||||||||||||||| ||||| |||||||||||||||||||
Db            1 GCAACTGTACCAAGTGACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1130 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCCCTCATCCTCG 1189
          ||||||||||||||||||| |||||||||||||||||||
Db            60 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCCCTCATCCTCG 119

Qy      1190 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1249
          ||||||||||||||||||| |||||||||||||||||||
Db            120 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy      1250 CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 1308
          ||||||||||||||||||| |||||||||||||||||||
Db            180 CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 239

Qy      1309 ATCCAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 1368
          ||||||||||||||||||| |||||||||||||||||||
Db            240 ATCCAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 299

Qy      1369 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 1428

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Db	300	 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC	359
Qy	1429	GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	1488
Db	360	 GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC	419
Qy	1489	CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	1548
Db	420	 CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG	479
Qy	1549	ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC	1608
Db	480	 ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC	539
Qy	1609	CCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	1668
Db	540	 CCCCCAGATGCCATACCCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG	599
Qy	1669	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1728
Db	600	 GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1729	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1788
Db	660	 GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1789	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG	1848
Db	720	 CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG	778
Qy	1849	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1908
Db	779	 GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1909	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1968
Db	838	 AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1969	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	2028
Db	898	 AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957
Qy	2029	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACCTCAAGGAGGTG	2088
Db	958	 CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACCTCAAGGAGGTG	1017
Qy	2089	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	2148
Db	1018	 GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC-	1076
Qy	2149	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAG	2208
Db	1077	 AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCCAGCTCCCTGTGGAAG	1134
Qy	2209	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	2268

Db 1135 AGTAAGCTCCTTGTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG 1194  
 Qy 2269 CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC 2328  
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 Db 1195 CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC 1254  
 Qy 2329 TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC 2388  
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 Db 1255 TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC 1314  
 Qy 2389 ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA 2448  
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 Db 1315 ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA 1374  
 Qy 2449 GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGGCAGAAGATAATTTCC 2508  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 1375 GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGGCAGAAGATAATTTCC 1434  
 Qy 2509 AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC 2568  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 1435 AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC 1494  
 Qy 2569 CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC 2628  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 1495 CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC 1554  
 Qy 2629 CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT 2688  
 ||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
 Db 1555 CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT 1614  
 Qy 2689 GGACTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGAGGCC 2746  
 || ||||| |||| |||| || |||||||| ||||||||||||||||||||  
 Db 1615 GGGACTGGCCAGCAGGACGGTGGCTTCTTTACAGTGTTTCGGAGGCTGAGTGCTGAGGCC 1674  
 Qy 2747 GGCCAG 2752  
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 Db 1675 GGCCAG 1680

RESULT 5

US-08-808-982-3

; Sequence 3, Application US/08808982

; Patent No. 5939271

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; APPLICANT: Leonardo, E. David

; APPLICANT: Hink, Lindsay

; APPLICANT: Masu, Masayuki

; APPLICANT: Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: USA



Qy	563	CGGAGGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT	622
Db	524	CAGAGGGGAGTGCCTGTGGCTGAGGTGGAATGGCTCAAGAATGAAGATGTCATCGATCCCCG	583
Qy	623	CCCTGGACCCCAATGTATAACATCACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCC	682
Db	584	CTCAGGACACTAACTTCCTGCTCACCATTGACCACAACCTCATCATCCGCCAGGCGCGCC	643
Qy	683	TTGCTGACACGGCCAATACTACACCTGCGTGGCCAAGAATCGTGGCACGTCGCCGAGCG	742
Db	644	TCTCAGACACAGCCAATACTACACCTGTGTGGCAAAGAATATTGTGGCCAAGCGCCGGAGCA	703
Qy	743	CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCG	802
Db	704	CGACGGCCACAGTTCATCGTCTATGTGAACGGAGGTTGGTCCAGCTGGGCAGAATGGTCAC	763
Qy	803	TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	862
Db	764	CCTGCTCTAACCCTGCGGCCGAGGTTGGCAGAAACGTACTAGGACCTGCACCAACCCAG	823
Qy	863	CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAAATGTCCAGAAAACAGCCTGCGCCA	922
Db	824	CCCCACTCAATGGAGGTGCCTTCTGCGAGGGACAGGCTTGCCAGAAGACGGCTTGACCA	883
Qy	923	CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCCGGCCTGTGGGCTGG	982
Db	884	CCGTGTGCCAGTGGATGGAGCGTGGACTGAGTGGAGCAAGTGGTCCGCCTGCAGCACAG	943
Qy	983	ACTGCACCCACTGGCGGAGCCGTGAGTGTCTGACCCAGCACCCCGCAACGGAGGGGAGG	1042
Db	944	AGTGTGCGCACTGGCGCAGCCGCGAGTGCATGGCACC GCCCGCCCAAGCGAGGCCGTG	1003
Qy	1043	AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG	1102
Db	1004	ACTGCAGCGGGACGCTACTTGACTCCAAGAACTGCACCGATGGGCTGTGCGTGTGAATC	1063
Qy	1103	CTTCTGGCC-----CTGAGGACGTGGCCCTCT	1129
Db	1064	AGAGAACTCTAAACGACCCTAAAAGCCGCCCTGGAGCCGTCGGGAGACGTGGCGCTGT	1123
Qy	1130	ATGTGGGCCTC---ATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTTGCTCCTCATCC	1186
Db	1124	ATGCGGGCCTCGTGGTGGCCGTCTTTGTGGTTCTGGCAGTTCTCATGGCTGTAGGAGTGA	1183
Qy	1187	TCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT---C	1243
Db	1184	TCGTGTACCGGAGAACTGCCGGGACTTCGACACGGACATCACTGACTCCTCTGCTGCCC	1243
Qy	1244	TCACCTCAGGCTTCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGC	1303
Db	1244	TCACTGGTGGTTTTCCACCCCGTCAACTTCAAGACTGCAAGGCCAGCAAACCCACAGCTCC	1303
Qy	1304	T-----CACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCT	1357
Db	1304	TGCACCCATCCGCCCTCCGGACCTAACGGCCAGTGCTGGCATCTACCGCGGACCTGTGT	1363

Qy	1358	GTCCCCGGCAGGA-----TG	1372
Db	1364	ATGCCCTGCAGGACTCTGCCGACAAGATCCCTATGACTAATTCACCCCTTCTGGATCCCT	1423
Qy	1373	GGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCC-----CCTGG	1423
Db	1424	TGCCCAGCCTCAAGATCAAGGTCTATGACTCCAGCACCATCGGCTCTGGGGCTGGCCTGG	1483
Qy	1424	GTGGCGGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGGCCGAGGAGTTCGTCT	1483
Db	1484	CTGATGGAGCCGACCTGCTGGGTGTCTTACCACCCGGTACATACCAGGCGATTTCTCCC	1543
Qy	1484	CCCGCCTCTCCACCCAGAAC-----TACTTCCGCTCCC	1516
Db	1544	GGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCCTTGGTTCCCAGCACCTCCTGGGCC	1603
Qy	1517	TGCCCCGAGGCCACCAGCAACATGACCTATGGGACCTTCAACTTCCTCGGGGGCCGGCTGA	1576
Db	1604	TCCCTCGAGACCCCAGCAGCAGTGTCACTGGCACCTTTGGTTGCCTGGGTGGGAGGCTGA	1663
Qy	1577	TGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAGGGAAGA	1636
Db	1664	CCATTCCCGGCACAGGGGTGAGCCTGTTGGTACCAAATGGAGCCATTCCCCAGGGCAAGT	1723
Qy	1637	TCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCCTAGCTGGCT	1696
Db	1724	TCTATGACTTGTATCTACGTATCAACAAGACTGAAAGCACCCCTCCCACTTTCGGAAGGTT	1783
Qy	1697	GTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCTGGCGTCCTGCTCACCCGGC	1756
Db	1784	CCCAGACAGTATTGAGCCCCTCGGTGACCTGCGGGCCACGGGCCCTCCTCCTGTGCCGCC	1843
Qy	1757	CAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCC	1816
Db	1844	CTGTTGTCCTCACTGTGCCCCACTGTGCTGAAGTCATTGCCGGAGACTGGATCTTCCAGC	1903
Qy	1817	TCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGC	1876
Db	1904	TCAAGACCCAGGCCCATCAGGGCCACTGGGAGGAGGTGGTGACTTTGGATGAGGAGACTC	1963
Qy	1877	CCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGC	1936
Db	1964	TGAACACCCCCTGCTACTGCCAGCTAGAGGCTAAATCCTGCCACATCCTGTTGGACCAGC	2023
Qy	1937	TGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGC	1996
Db	2024	TGGGTACCTACGTGTTACGGGCGAGTCTTACTCCCGCTCCGCAGTCAAGCGGCTCCAGC	2083
Qy	1997	TGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCC	2056
Db	2084	TAGCCATCTTCGCCCCAGCCCTCTGCACCTCCCTGGAGTATAGTCTCAGGGTCTACTGTC	2143
Qy	2057	TGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGAC	2116
Db	2144	TGGAGGACACTCCTGCAGCACTGAAGGAGTCTTAGAGCTGGAGAGGACTCTGGGTGGCT	2203
Qy	2117	AGCTGATCCAGGAGCCACGGGTCTGCACCTTCAAGGACAGTTACCACAACCTGCGCCTAT	2176

Db	2204	ACTTGGTGGAGGAGCCCAAGACTTTGCTCTTTAAGGACAGTTACCACAACCTACG-CTCT	2262
Qy	2177	CCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACCAGGAGA	2236
Db	2263	CCCTCCATGACATCCCCCATGCCCCTGGAGGAGCAAAGCTACTGGCCAAGTACCAGGAGA	2322
Qy	2237	TCCCCTTTTATCACATCTGGAATGGCAGCAGCGGTACTTGCACTGCACCTTCACCCTGG	2296
Db	2323	TTCCCTTCTACCATGTGTGGAACGGCAGCCAGAAAGCCCTGCACTGCACTTTCACCCTGG	2382
Qy	2297	AGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGG	2356
Db	2383	AGAGACATAGCCTAGCCTCCACTGAGTTCACCTGTAAGGTCTGCGTGCGGCAGGTAGAAG	2442
Qy	2357	GCGACGGGCAGAGCTTCAGCATCAACTTCAACATCAC---CAAGGACACAAGGTTTGCTG	2413
Db	2443	GGGAAGGCCAGATTTTCCAGCTGCACACCACGCTGGCTGAGACGCCTGCTGGCTCCCTGG	2502
Qy	2414	AGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCA	2473
Db	2503	ATGCACTCTGCTCTGCCCCTGGCAATGCTGCCACCACACAGCTGGGACCCTATGCCTTCA	2562
Qy	2474	AGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGCGGG	2533
Db	2563	AGATAACCACTGTCCATCCGCCAGAAGATCTGCAACAGCCTGGACGCCCCCACTCACGGG	2622
Qy	2534	GTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCTTTG	2593
Db	2623	GCAATGACTGGCGGCTGTTGGCACAGAAGCTCTCCATGGACCGGTACCTGAAGTACTTCG	2682
Qy	2594	CCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCA	2653
Db	2683	CCACCAAAGCTAGTCCCACAGGCGTGATCTTAGACCTCTGGGAAGCTCGGCAGCAGGATG	2742
Qy	2654	ACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCC	2713
Db	2743	ATGGGGACCTCAACAGCCTGGCCAGTGCCTTGGAGGAGATGGGCAAGAGTGAGATGCTGG	2802
Qy	2714	TCTTCACAGTGTGCGGAGGCTGAGTGCTGA	2742
Db	2803	TAGCCATGACCACTGATGGCGATTGCTGA	2831

RESULT 6

US-09-306-902A-3

; Sequence 3, Application US/09306902A

; Patent No. 6277585

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

```

;      ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
;      STREET: 268 BUSH STREET, SUITE 3200
;      CITY: SAN FRANCISCO
;      STATE: CALIFORNIA
;      COUNTRY: USA
;      ZIP: 94104
;
;      COMPUTER READABLE FORM:
;      MEDIUM TYPE: Floppy disk
;      COMPUTER: IBM PC compatible
;      OPERATING SYSTEM: PC-DOS/MS-DOS
;      SOFTWARE: PatentIn Release #1.0, Version #1.30
;
;      CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/306,902A
;      FILING DATE: 07-May-1999
;      CLASSIFICATION: <Unknown>
;
;      ATTORNEY/AGENT INFORMATION:
;      NAME: OSMAN, RICHARD A
;      REGISTRATION NUMBER: 36,627
;      REFERENCE/DOCKET NUMBER: UC96-217
;
;      TELECOMMUNICATION INFORMATION:
;      TELEPHONE: (415) 343-4341
;      TELEFAX: (415) 343-4342
;
;      INFORMATION FOR SEQ ID NO: 3:
;      SEQUENCE CHARACTERISTICS:
;      LENGTH: 2831 base pairs
;      TYPE: nucleic acid
;      STRANDEDNESS: double
;      TOPOLOGY: linear
;
;      MOLECULE TYPE: cDNA
;
;      SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-306-902A-3

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Query Match          30.6%;  Score 841.4;  DB 3;  Length 2831;
Best Local Similarity 60.0%;  Pred. No. 1.3e-178;
Matches 1638;  Conservative 0;  Mismatches 961;  Indels 130;  Gaps 9;

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Qy      143 ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATG 202
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Db      104 ACTCCTTCCCATCAGCACCCGCGGAGCAGCTGCCTCACTTCCTGCTGGAACCAGAGGATG 163

Qy      203 TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGA 262
        || || || | | | | | | | | | | | | | | | | | | | | | | | |
Db      164 CCTACATCGTAAAGAACAAGCCAGTGGAATTGCACTGCCGAGCCTTCCCTGCCACACAGA 223

Qy      263 TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA 322
        || | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      224 TCTACTTCAAGTGTAATGGCGAGTGGGTTAGCCAGAAAGGCCACGTACGCAGGAGAGCC 283

Qy      323 CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG 382
        || | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      284 TGGATGAGGCCACAGGCTTGCGAATACGAGAGGTGCAGATAGAGGTGTCGCGGCAGCAGG 343

Qy      383 TCGAGAAGGTGTTCTGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG 442
        | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      344 TGGAGGAAC TTTTGGGCTCGAGGACTACTGGTGTCAGTGCGTGGCCTGGAGCTCTTCGG 403

Qy      443 GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC 502

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Db	404	GAACCACCAAGAGTCGCCGAGCCTACATCCGCATTGCCTACTTGCGCAAGAACTTTGACC	463
Qy	503	AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC	562
Db	464	AGGAGCCTCTGGCGAAGGAGGTACCCTTGGATCATGAGGTCCTTCTGCAGTGCCGCCCAC	523
Qy	563	CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT	622
Db	524	CAGAGGGAGTGCCTGTGGCTGAGGTGGAATGGCTCAAGAATGAAGATGTCATCGATCCCG	583
Qy	623	CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCC	682
Db	584	CTCAGGACACTAACTTCCTGCTCACCATTGACCACAACCTCATCATCCGCCAGGCGCGCC	643
Qy	683	TTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCG	742
Db	644	TCTCAGACACAGCCAACTACACCTGTGTGGCAAAGAATATTGTGGCCAAGCGCCGGAGCA	703
Qy	743	CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCG	802
Db	704	CGACGGCCACAGTCATCGTCTATGTGAACGGAGGTTGGTCCAGCTGGGCAGAATGGTCAC	763
Qy	803	TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	862
Db	764	CCTGCTCTAACCGCTGCGGCCGAGGTTGGCAGAAACGTACTAGGACCTGCACCAACCCAG	823
Qy	863	CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCA	922
Db	824	CCCCACTCAATGGAGGTGCCTTCTGCGAGGGACAGGCTTGCCAGAAGACGGCTTGACCA	883
Qy	923	CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCCGCCTGTGGGCTGG	982
Db	884	CCGTGTGCCCAGTGGATGGAGCGTGGACTGAGTGGAGCAAGTGGTCCGCCTGCAGCACAG	943
Qy	983	ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG	1042
Db	944	AGTGTGCGCACTGGCGCAGCCGCGAGTGCATGGCACCGCCGCCCCAGAACGGAGGCCGTG	1003
Qy	1043	AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG	1102
Db	1004	ACTGCAGCGGGACGCTACTTGACTCCAAGAACTGCACCGATGGGCTGTGCGTGCTGAATC	1063
Qy	1103	CTTCTGGCC-----CTGAGGACGTGGCCCTCT	1129
Db	1064	AGAGAACTCTAAACGACCCTAAAAGCCGCCCCCTGGAGCCGTCGGGAGACGTGGCGCTGT	1123
Qy	1130	ATGTGGGCCTC---ATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTGTCTCATCC	1186
Db	1124	ATGCGGGCCTCGTGGTGGCCGTCTTTGTGGTTCTGGCAGTTCTCATGGCTGTAGGAGTGA	1183
Qy	1187	TCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT---C	1243
Db	1184	TCGTGTACCGGAGAACTGCCGGGACTTCGACACGGACATCACTGACTCCTCTGCTGCCC	1243
Qy	1244	TCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGC	1303

Db	1244	TCACTGGTGGTTTCCACCCCGTCAACTTCAAGACTGCAAGGCCAGCAACCCACAGCTCC	1303
Qy	1304	T-----CACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCT	1357
Db	1304	TGCACCCATCCGCCCTCCGGACCTAACGGCCAGTGCTGGCATCTACCGCGGACCTGTGT	1363
Qy	1358	GTCCCCGGCAGGA-----TG	1372
Db	1364	ATGCCCTGCAGGACTCTGCCGACAAGATCCCTATGACTAATTACCCCTTCTGGATCCCT	1423
Qy	1373	GGCCCAGCCCCAAGTTCAGCTACCAATGGGCACCTGCTCAGCCC-----CCTGG	1423
Db	1424	TGCCCAGCCTCAAGATCAAGGTCTATGACTCCAGCACCATCGGCTCTGGGGCTGGCCTGG	1483
Qy	1424	GTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTTCGTCT	1483
Db	1484	CTGATGGAGCCGACCTGCTGGGTGTCTTACCACCCGGTACATACCCAGGCGATTCTCCC	1543
Qy	1484	CCCGCCTCTCCACCCAGAAC-----TACTTCCGCTCCC	1516
Db	1544	GGGACACCCACTTCTGCACCTGCGCAGCGCCAGCCTTGTTCCAGCACCTCCTGGGCC	1603
Qy	1517	TGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTCTCGGGGGCCGGCTGA	1576
Db	1604	TCCCTCGAGACCCAGCAGCAGTGTGAGTGGCACCTTTGGTTGCCTGGGTGGGAGGCTGA	1663
Qy	1577	TGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAGGGAAGA	1636
Db	1664	CCATTCCCGGCACAGGGGTGAGCCTGTTGGTACCAAATGGAGCCATTCCCCAGGGCAAGT	1723
Qy	1637	TCTATGAGATCTACCTCACGCTGCACAAGCCGAAGACGTGAGGTTGCCCTAGCTGGCT	1696
Db	1724	TCTATGACTTGTATCTACGTATCAACAAGACTGAAAGCACCCCTCCCACCTTTCGGAAGGTT	1783
Qy	1697	GTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCTGGCGTCTCTGCTCACCCGGC	1756
Db	1784	CCCAGACAGTATTGAGCCCTCGGTGACCTGCGGGCCACGGGCCTCCTCCTGTGCCGCC	1843
Qy	1757	CAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCC	1816
Db	1844	CTGTTGTCTCACTGTGCCCCACTGTGCTGAAGTCATTGCCGGAGACTGGATCTTCAGC	1903
Qy	1817	TCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGC	1876
Db	1904	TCAAGACCCAGGCCCATCAGGGCCACTGGGAGGAGGTGGTGACTTTGGATGAGGAGACTC	1963
Qy	1877	CCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTACCGAGCAGC	1936
Db	1964	TGAACACCCCTGCTACTGCCAGCTAGAGGCTAAATCCTGCCACATCCTGTTGGACCAGC	2023
Qy	1937	TGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGC	1996
Db	2024	TGGGTACCTACGTGTTACGGGCGAGTCCTACTCCCGCTCCGCAGTCAAGCGGCTCCAGC	2083
Qy	1997	TGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTACTGCC	2056
Db	2084	TAGCCATCTTCGCCCCAGCCCTCTGCACCTCCCTGGAGTATAGTCTCAGGGTCTACTGTC	2143

Qy 2057 TGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGAC 2116  
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 Db 2144 TGGAGGACACTCCTGCAGCACTGAAGGAGGTCTAGAGCTGGAGAGGACTCTGGGTGGCT 2203

Qy 2117 AGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTACCACAACCTGCGCCTAT 2176  
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 Db 2204 ACTTGGTGGAGGAGCCCAAGACTTTGCTCTTTAAGGACAGTTACCACAACCTACG-CTCT 2262

Qy 2177 CCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACCAGGAGA 2236  
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 Db 2263 CCCTCCATGACATCCCCATGCCCACTGGAGGAGCAAACCTACTGGCCAAGTACCAGGAGA 2322

Qy 2237 TCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCAGTGCACCTTCACCCTGG 2296  
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 Db 2323 TTCCCTTCTACCATGTGTGGAACGGCAGCCAGAAAGCCCTGCAGTGCACCTTTCACCCTGG 2382

Qy 2297 AGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGG 2356  
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 Db 2383 AGAGACATAGCCTAGCCTCCACTGAGTTCACCTGTAAGGTCTGCGTGCAGGAGGTAGAAG 2442

Qy 2357 GCGACGGGCAGAGCTTCAGCATCAACTTCAACATCAC---CAAGGACACAAGGTTTGCTG 2413  
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 Db 2443 GGGAAGGCCAGATTTTCCAGCTGCACACCACGCTGGCTGAGACGCCTGCTGGCTCCCTGG 2502

Qy 2414 AGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCTTCA 2473  
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 Db 2503 ATGCACTCTGCTCTGCCCCCTGGCAATGCTGCCACCACACAGCTGGGACCCTATGCCTTCA 2562

Qy 2474 AGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGCGGG 2533  
 |||| || | ||| || ||||| ||||| ||||| ||| ||| |||||  
 Db 2563 AGATACCACTGTCCATCCGCCAGAAGATCTGCAACAGCCTGGACGCCCCCAACTCACGGG 2622

Qy 2534 GTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCTTTG 2593  
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 Db 2623 GCAATGACTGGCGGCTGTTGGCACAGAAGCTCTCCATGGACCGGTACCTGAACCTACTTCG 2682

Qy 2594 CCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACTTCCCCA 2653  
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 Db 2683 CCACCAAAGCTAGTCCCACAGGCGTGATCTTAGACCTCTGGGAAGCTCGGCAGCAGGATG 2742

Qy 2654 ACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTGGCC 2713  
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 Db 2743 ATGGGGACCTCAACAGCCTGGCCAGTGCCTTGGAGGAGATGGGCAAGAGTGAGATGCTGG 2802

Qy 2714 TCTTCACAGTGTGCGGAGGCTGAGTGCTGA 2742  
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 Db 2803 TAGCCATGACCACTGATGGCGATTGCTGA 2831

# RESULT 7

US-09-949-016-4794

; Sequence 4794, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED



Db	490	GGTCTACTTGTGGAACCTGAGTGCACCCACTGGCGCAGGAGGGAGTGCACGGCCAGCCCC	549
Qy	1025	CCC CGAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCACTG	1084
Db	550	CCAAGAATGGAGGCAAGGACTGCGACGGCCTCGTCTTGCAATCCAAGAAGTGCCTGATG	609
Qy	1085	ACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGG---CCTCA	1141
Db	610	GGCTTTGCATGCAGACTGCTCCTGATTGAGATGATGTTGCTCTCTATGTTGGGATTGTGA	669
Qy	1142	TCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCTCGTTTATTGCCGGA	1201
Db	670	TAGCAGTGATCGTTTGCTGGCGATCTCTGTAGTTGTGGCCTTGTGTGTATCGGAAGA	729
Qy	1202	AGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCAGGCTTCCAGC	1261
Db	730	ATCATCGTGACTTTGAGTCAGATATTATTGACTCTTCGGCACTCAATGGGGGCTTTTCAGC	789
Qy	1262	CCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATCCAGCCGGACC	1321
Db	790	CTGTGAACATCAAG-----GCAGCAAGACAAGATCTGCTGGCTGTACCCCCAGACC	840
Qy	1322	TCAGCACCACCACCACCCTACCAGGGCAGTCTCTGTCCCCGGCAGGATG-----GGCC	1376
Db	841	TCACGTGAGCTGCAGCCATGTACAGAGGACCTGTCTATGCCCTGCATGACGTCTCAGACA	900
Qy	1377	CAGCCCCAAGTTCCAGCTCACCAAT----GGGCACCTGCTCAGCCCCCTGGGTGGCGGCC	1432
Db	901	AAATCCCAATGACCAACTCTCCAATTCTGGATCCACTGCCCAACCTGAAAATCAAAGTGT	960
Qy	1433	GCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCT	1492
Db	961	ACAACACCTCAGGTGCTGTCACCCCCAAGATGACCTCTCTGAGTTTACGTCCAAGCTGT	1020
Qy	1493	CCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGA-----	1540
Db	1021	CCCCCTCAGATGACCCAGTCGTTGTTGGAGAATGAAGCCCTCAGCCTGAAGAACCAGAGTC	1080
Qy	1541	-----CCTATGGGACCTTCAACTTCTCGGGGGCC	1570
Db	1081	TAGCAAGGCAGACTGATCCATCCTGTACCGCATTTGGCAGCTTCAACTCGCTGGGAGGTC	1140
Qy	1571	GGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAG	1630
Db	1141	ACCTTATTGTTCCCAATTGAGGAGTCACTTGTGCTGATTCCCGCTGGGGCCATTCCCCAAG	1200
Qy	1631	GGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCTAG	1690
Db	1201	GGAGAGTCTACGAAATGTATGTGACTGTACACAGGAAAGAACTATGAGGCCACCCATGG	1260
Qy	1691	CTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCTGGCGTCTGCTCA	1750
Db	1261	ATGACTCTCAGACACTTTTGACCCCTGTGGTGAGCTGTGGGCCCCCAGGAGCTCTGCTCA	1320
Qy	1751	CCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCAGCCCTGACAGCTGGAGCC	1810
Db	1321	CCCGGCCAGTCGTCCTCACTATGCATCACTGCGCAGACCCCAATACCGAGGACTGGAAAA	1380

Qy	1811	TGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGG	1870
Db	1381	TACTGCTCAAGAACCAGGCAGCACAGGGACAGTGGGAGGATGTGGTGGTGGTTCGGGGAGG	1440
Qy	1871	AGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCG	1930
Db	1441	AAAACCTTCACCACCCCTGCTACATTACAGCTGGATGCAGAGGCCTGCCACATCCTCACAG	1500
Qy	1931	AGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCC	1990
Db	1501	AGAACCTCAGCACCTACGCCCTGGTAGGACATTCCACCACCAAAGCGGCTGCGAAGCGCC	1560
Qy	1991	TCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCT	2050
Db	1561	TCAAGCTGGCCATCTTTGGGCCCTGTGCTGCTCCTCGCTGGAGTACAGCATCCGAGTCT	1620
Qy	2051	ACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGG	2110
Db	1621	ACTGTCTGGATGACACCCAGGATGCCCTGAAGGAAATTTTACATCTTGAGAGACAGATGG	1680
Qy	2111	GGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTACCACAACCTGC	2170
Db	1681	GAGGACAGCTCCTAGAAGAACCTAAGGCTCTTCATTTTAAAGGCAGCACCCACAACCTGC	1740
Qy	2171	GCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACC	2230
Db	1741	GCCTGTCAATTCACGATATCGCCCATTCCTCTGGAAGAGCAAATTGCTGGCTAAATATC	1800
Qy	2231	AGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCCTGCACCTTCA	2290
Db	1801	AGGAAATTCATTTTACCATGTTTGGAGTGGATCTCAAAGAAACCTGCCTGCACCTTCA	1860
Qy	2291	CCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGGGTGTGGCAGG	2350
Db	1861	CTCTGGAAAGATTTAGCCTGAACACAGTGGAGCTGGTTTGCAAACCTCTGTGTGCGGCAGG	1920
Qy	2351	TGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCACCAAGGACACAAGGTTTG	2410
Db	1921	TGGAAGGAGAAGGGCAGATCTTCAGCTCAACTGCACCGTGTGAGAGAACCTACTGGCA	1980
Qy	2411	CTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGTCCCAGCCCTGGTGGGCCCCAGTGCCT	2470
Db	1981	TCGATTTGCCGCTGCTGGATCCTGCGAACACCATCACACGGTCACGGGGCCCAGTGCTT	2040
Qy	2471	TCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCACCCTGTAGGC	2530
Db	2041	TCAGCATCCCTCTCCCTATCCGGCAGAAGCTCTGTAGCAGCCTGGATGCCCCCAGACGA	2100
Qy	2531	GGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCATCTCAGCTTCT	2590
Db	2101	GAGGCCATGACTGGAGGATGCTGGCCCATAGCTGAACCTGGACAGGTACTTGAATTACT	2160
Qy	2591	TTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCGCGGCACTTCC	2650
Db	2161	TTGCCACCAAATCCAGCCCAACTGGCGTAATCCTGGATCTTTGGGAAGCACAGAACTTCC	2220

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Qy      2651 CCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAGCCAGACGCTG 2710
          | | | | | | | | | | | | | | | | | | | | | | | |
Db      2221 CAGATGGAACCTGAGCATGCTGGCAGCTGTCTTGGAAGAAATGGGAAGACATGAAACGG 2280

Qy      2711 GCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2742
          | | | | | | | | | | | |
Db      2281 TGGTGTCTTAGCAGCAGAAGGGCAGTATTAA 2312

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# RESULT 8

US-09-969-532-9

; Sequence 9, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides  
Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 9

; LENGTH: 2736

; TYPE: DNA

; ORGANISM: homo sapiens

US-09-969-532-9

Query Match 17.7%; Score 487; DB 4; Length 2736;

Best Local Similarity 50.9%; Pred. No. 2.7e-99;

Matches 1305; Conservative 0; Mismatches 1230; Indels 30; Gaps 5;

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Qy      172 CTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTG 231
          || || || || | | | | | | | | | | | | | | | |
Db      157 CTGCCTCATTTTCATAGAGGAGCCAGATGATGCTTATATTATCAAGAGCAACCTTATTGCA 216

Qy      232 CTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG 291
          || | | | | | | | | | | | | | | | | | | | |
Db      217 CTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATGCAACGGCGAGTGGGTC 276

Qy      292 CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCACATG 351
          | ||| || || | | | | | | | | | | | | | | |
Db      277 CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGC 336

Qy      352 GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAGGAATAC 411
          || || | | | | | | | | | | | | | | | | | |
Db      337 GAAGTGTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCAGGACTAT 396

Qy      412 TGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC 471
          || | | | | | | | | | | | | | | | | | | |
Db      397 TGGTGCCAGTGTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTG 456

Qy      472 CGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG 531
          || | | | | | | | | | | | | | | | | | | |

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Db	457	CGCATAGCCTATTTACGGA AAAA ACTTTGAACAAGACCCACAAGGAAGGGAAGTTCCCATTT	516
Qy	532	GAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGCATCCCTCCAGCCGAGGTGGAG	591
Db	517	GAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA	576
Qy	592	TGGCTCCGGAACGAGGACCTGGTGGACCCGTCCTGGACCCCAATGTATACATCACGCGG	651
Db	577	TGGCTGAAAAATGAAGAGCCCATTGACTCTGAACAAGACGAGAACATTGACACCAGGGCT	636
Qy	652	GAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTG	711
Db	637	GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG	696
Qy	712	GCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTACGTGAAC	771
Db	697	GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT	756
Qy	772	GGTGGGTGGTCGACGTGGACCGAGTGGTCCGCTCTGCAGCGCCAGCTGTGGGCGCGGCTGG	831
Db	757	GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGCTCTGCAGTCCAGAGTGTGA-----A	807
Qy	832	CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG	891
Db	808	CATTTGCGGATCCGGGAGTGCACAGCACCACCCCGAGAAATGGGGGCAAATTCTGTGAA	867
Qy	892	GGGCAGAAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGC	951
Db	868	GGTCTAAGCCAGGAATCTGAAAACAGCAGATGGTCTTTGCATCCTAGATAAAAAACCT	927
Qy	952	CCGTGGAGCAAGTGGTGGCCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC	1011
Db	928	CTTCATGAAATAAAACCCCAAAGCATTGAGAATGCCAGCGACATTGCTTTGTACTCGGGC	987
Qy	1012	TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC	1071
Db	988	TTGGGTGCTGCCGTGCTGGCCGTTGCAGTCCTGGTCATTGGTGTCAACCTTTACAGACGG	1047
Qy	1072	AACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT	1131
Db	1048	AGCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACAGGTGGCTTCCA-	1106
Qy	1132	GTGGGCCCTCATCGCCGTGGCCGCTGCCTGGTCTGCTGCTGCTTGTCTCATCCTCGTT	1191
Db	1107	--GACCTTCAACTTCAAAACAGTCCGTCAAGCCAAGAATATCATGGAACATAATGATACAA	1164
Qy	1192	TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA	1251
Db	1165	GAAAAATCCTTTGGTAACTCCCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTG	1224
Qy	1252	GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC	1311
Db	1225	AGCCGGACATACAGCGGACCCATCTGTCTGCAGGACCCTCTGGACAAGGAGCTCATGACA	1284
Qy	1312	CAGCCGGACCTCAGCACCACCACCACCCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT	1371
Db	1285	GAGTCCCTCACTCTTTTAAACCTTTGTGCGGACATCAAAGTGAAAGTCCAGAGCTCGTTTATG	1344



Qy 1372 GGGCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1431  
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 Db 1345 GTTTCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTT 1404

Qy 1432 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1491  
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 Db 1405 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATC 1464

Qy 1492 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1551  
 | | | | | | | | | | | | | | | |  
 Db 1465 CAAATCTGTC-----ATCACTCCCCACAAGGACAGAAGTGGGACAAGTGGTGTC 1515

Qy 1552 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1611  
 | | | | | | | | | | | | | | | |  
 Db 1516 TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAATACAGGGGTGAGCTTACTCATACCA 1575

Qy 1612 CCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1671  
 | | | | | | | | | | | | | | | |  
 Db 1576 CACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1632

Qy 1672 GACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1731  
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 Db 1633 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1692

Qy 1732 CCCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1791  
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 Db 1693 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1752

Qy 1792 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1851  
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 Db 1753 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1812

Qy 1852 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1911  
 | | | | | | | | | | | | | | | |  
 Db 1813 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1866

Qy 1912 GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1971  
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 Db 1867 GCGTGTGTCATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1926

Qy 1972 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 2031  
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 Db 1927 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCCTGTAACCTCCCTG 1986

Qy 2032 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2091  
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 Db 1987 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTAGGAAGTGGTT 2046

Qy 2092 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAG 2151  
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 Db 2047 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2106

Qy 2152 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGT 2211  
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 Db 2107 GGGAATACCTTTAGTCTTCAGATTTCTGTCCTTGATATCCCCCATTCCTCTGGAGAATT 2166

Qy 2212 AAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG 2271  
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 Db 2167 AAACCATTCACTGCCTGCCAGGAAGTCCCCTTCTCCCGCGTGTGGTGCAGTAACCGGCAG 2226  
 Qy 2272 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2331  
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 Db 2227 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTCTGC 2286  
 Qy 2332 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2391  
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 Db 2287 AAAATCTGCATTGCGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2346  
 Qy 2392 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2451  
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 Db 2347 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCCTGCA 2406  
 Qy 2452 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGC 2511  
 | | ||||| ||||| || |||| | || | || | || |  
 Db 2407 CAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA 2466  
 Qy 2512 CTGGACCCACCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2571  
 | || | || | || || ||||| || | || |||| | | |  
 Db 2467 TTTGATACCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAACAGCATC 2526  
 Qy 2572 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2631  
 |||| || | | || | | | |||| | | | | |||||  
 Db 2527 AACAGGAATTTATCTTATTTGCTACACAAAGTAGCCCATCTGCTGTCAATTTGAACCTG 2586  
 Qy 2632 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2691  
 |||| | | | | | | | | | | |||| | | | |  
 Db 2587 TGGGAAGCTCGTCATCAGCATGATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2646  
 Qy 2692 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGAGGCTGAG 2736  
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RESULT 9

US-09-969-532-33

; Sequence 33, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 33

; LENGTH: 3411

; TYPE: DNA

; ORGANISM: homo sapiens

Query Match 17.7%; Score 487; DB 4; Length 3411;  
 Best Local Similarity 50.9%; Pred. No. 2.9e-99;  
 Matches 1305; Conservative 0; Mismatches 1230; Indels 30; Gaps 5;

Qy	172	CTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTG	231
Db	271	CTGCCTCATTTTCATAGAGGAGCCAGATGATGCTTATATTATCAAGAGCAACCCTATTGCA	330
Qy	232	CTTGTGTGCAAGGCCGTGCCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG	291
Db	331	CTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATGCAACGGCGAGTGGGTC	390
Qy	292	CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATG	351
Db	391	CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGC	450
Qy	352	GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTCGAGAAGGTGTTCCGGGCTGGAGGAATAC	411
Db	451	GAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCCGAGGACTAT	510
Qy	412	TGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC	471
Db	511	TGGTGCCAGTGTTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTG	570
Qy	472	CGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG	531
Db	571	CGCATAGCCTATTTACGGAAAACTTTGAACAAGACCCACAAGGAAGGGAAGTTCCCATTT	630
Qy	532	GAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGCATCCCTCCAGCCGAGGTGGAG	591
Db	631	GAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA	690
Qy	592	TGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGG	651
Db	691	TGGCTGAAAAATGAAGAGCCCATTTGACTCTGAACAAGACGAGAACATTGACACCAGGGCT	750
Qy	652	GAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTG	711
Db	751	GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG	810
Qy	712	GCCAAGAACATCGTGGCACGTGCGCCGAGCGCCTCCGCTGCTGTCATCGTCTACGTGAAC	771
Db	811	GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT	870
Qy	772	GGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG	831
Db	871	GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTGA-----A	921
Qy	832	CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG	891
Db	922	CATTTGCGGATCCGGGAGTGCACAGCACACCACCCCGAGAAATGGGGGCAAATTTCTGTGAA	981
Qy	892	GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGC	951
Db	982	GGTCTAAGCCAGGAATCTGAAACTGCACAGATGGTCTTTGCATCCTAGATAAAAAACCT	1041

Qy 952 CCGTGGAGCAAGTGGTGGGCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC 1011  
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 Db 1042 CTTTCATGAAATAAAACCCCAAAGCATTGAGAATGCCAGCGACATTGCTTTGTACTCGGGC 1101  
 Qy 1012 TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC 1071  
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 Db 1102 TTGGGTGCTGCCGTCGTGGCCGTTGCAGTCCTGGTCATTGGTGTACCCCTTTACAGACGG 1161  
 Qy 1072 AACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT 1131  
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 Db 1162 AGCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACAGGTGGCTTCCA- 1220  
 Qy 1132 GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCGTT 1191  
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 Db 1221 --GACCTTCAACTTCAAAACAGTCCGTCAAGCCAAGAATATCATGGAATAATGATACAA 1278  
 Qy 1192 TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1251  
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 Db 1279 GAAAAATCCTTTGGTAACTCCCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTG 1338  
 Qy 1252 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC 1311  
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 Db 1339 AGCCGGACATACAGCGGACCCATCTGTCTGCAGGACCCTCTGGACAAGGAGCTCATGACA 1398  
 Qy 1312 CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1371  
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 Db 1399 GAGTCCTCACTCTTTAACCTTTGTCTGGACATCAAAGTGAAAGTCCAGAGCTCGTTCATG 1458  
 Qy 1372 GGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1431  
 | | | | | | | | | | | | | | | | | |  
 Db 1459 GTTTCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCAGGACTTTT 1518  
 Qy 1432 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1491  
 | | | | | | | | | | | | | | | | | |  
 Db 1519 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATC 1578  
 Qy 1492 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1551  
 | | | | | | | | | | | | | | | | | |  
 Db 1579 CAAAATCTGTC-----ATCACTCCCCACAAGGACAGAAGTGAAGGACAAGTGGTGTG 1629  
 Qy 1552 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1611  
 | | | | | | | | | | | | | | | | | |  
 Db 1630 TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1689  
 Qy 1612 CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1671  
 | | | | | | | | | | | | | | | | | |  
 Db 1690 CACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1746  
 Qy 1672 GACGTGAGGTTGCCCCTAGCTGGCTGTGAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1731  
 | | | | | | | | | | | | | | | | | |  
 Db 1747 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCTGAAGTCACCTGTGGT 1806  
 Qy 1732 CCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1791  
 | | | | | | | | | | | | | | | | | |  
 Db 1807 CCTCCAGACATGATCGTCAACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1866

Qy	1792	AGCCCTTGACAGCTGGAGCCTGCGCCTCAAAAAAGCAGTCGTGCGAGGGGCAGCTGGGAGGAT	1851
Db	1867	AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA	1926
Qy	1852	GTGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGT	1911
Db	1927	GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT	1980
Qy	1912	GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC	1971
Db	1981	GCGTGTGCATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA	2040
Qy	1972	GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC	2031
Db	2041	GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTTGGCTGCATGTCTGTAACTCCCTG	2100
Qy	2032	GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG	2091
Db	2101	GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT	2160
Qy	2092	CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAG	2151
Db	2161	TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAAACCAAATTGCTGCATTTCAAA	2220
Qy	2152	GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGT	2211
Db	2221	GGGAATACCTTTAGTCTTCAGATTTCTGTCTTGTATTTCCCCATTCTCTGGAGAATT	2280
Qy	2212	AAGTCCTTGTGCTAGCTACCAGGAGATCCCTTTTATCACATCTGGAATGGCACGCAGCGG	2271
Db	2281	AAACCATTCCTGCTGCTGCCAGGAAGTCCCGTTCTCCCGGTGTGGTGCAGTAACCGGCAG	2340
Qy	2272	TACTTGCACTGCACCTTCACCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC	2331
Db	2341	CCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCCTGC	2400
Qy	2332	AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC	2391
Db	2401	AAAATCTGCATTCGGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC	2460
Qy	2392	ACCAAGGACACAAGGTTTGTCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC	2451
Db	2461	CTAGAGAGTGAACGAGAAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCCTGCA	2520
Qy	2452	CTGGTGGGCCCCAGTGCCTTCAAGATCCCTTCTCTATTCGGCAGAAGATAATTTCCAGC	2511
Db	2521	CAGACTGGCCCCAAAGCCTTCAAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA	2580
Qy	2512	CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG	2571
Db	2581	TTTGATAACCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC	2640
Qy	2572	GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG	2631
Db	2641	AACAGGAATTTATCTTATTTCGCTACACAAAGTAGCCCATCTGCTGTCAATTTGAACCTG	2700
Qy	2632	TGGGAGGCGCGGCACCTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA	2691

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          ||||| || || || | | | | | | | | | | | |
Db      2701 TGGGAAGCTCGTCATCAGCATGATGGTGTCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2760
Qy      2692 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGGGAGGCTGAG 2736
          || | | | | | | | | | | | | | | | |
Db      2761 ATTGGGAGGACACACACGAAACTCTCAAACATTTTCAGAATCCCAG 2805

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RESULT 10

US-09-969-532-11

; Sequence 11, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides  
Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 11

; LENGTH: 2703

; TYPE: DNA

; ORGANISM: homo sapiens

US-09-969-532-11

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Query Match          17.0%; Score 467; DB 4; Length 2703;
Best Local Similarity 51.0%; Pred. No. 8.1e-95;
Matches 1307; Conservative 0; Mismatches 1195; Indels 63; Gaps 6;

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Qy      172 CTTCCCCACTTCC TGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTG 231
          || || || || | | ||||| || |||| | | || ||||| || | | |
Db      157 CTGCCTCATTT CATAGAGGAGCCAGATGATGCTTATATTATCAAGAGCAACCCTATTGCA 216

Qy      232 CTTGTGTGCAAGGCCGTGCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG 291
          || ||||| || | || |||| ||||| ||||| ||||| ||||| ||
Db      217 CTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATGCAACGGCGAGTGGGTC 276

Qy      292 CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATG 351
          | ||| || ||||| || | | |||| |||| || || |
Db      277 CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGC 336

Qy      352 GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTTCGAGAAGGTGTTTCGGGCTGGAGGAATAC 411
          || || || ||||| | |||| ||||| || | | |||| |||| ||
Db      337 GAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCAGGACTAT 396

Qy      412 TGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC 471
          ||||| ||||| ||||| ||||| | || || ||||| ||||| ||
Db      397 TGGTGCCAGTGTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTG 456

Qy      472 CGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG 531
          ||||| || || || || |||| || || || || || | || || || |
Db      457 CGCATAGCCTATTTACGGAAAACTTTGAACAAGACCCACAAGGAAGGAAGTTCCCATT 516

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Qy	532	GAGCAGGGCATCGTGTCTGCCCTGCCGTCCACCGGAGGGGCATCCCTCCAGCCGAGGTGGAG	591
Db	517	GAAGGCATGATTGTACTGCACTGCCGCCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA	576
Qy	592	TGGCTCCGGAACGAGGACCTGGTGACCCGTCCTGGACCCCCAATGTATACATCACGCGG	651
Db	577	TGGCTGAAAAATGAAGAGCCCATTTGACTCTGAACAAGACGAGAACATTGACACCAGGGCT	636
Qy	652	GAGCACAGCCTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAATAACACCTGCGTG	711
Db	637	GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG	696
Qy	712	GCCAAGAACATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTCATCGTCTACGTGAAC	771
Db	697	GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT	756
Qy	772	GGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG	831
Db	757	GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTG-----AA	807
Qy	832	CAGAAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG	891
Db	808	CATTTGCGGATCCGGGAGTGCACAGCACCACCCCGAGAAATGGGGGCAAATTCTGTGAA	867
Qy	892	GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGC	951
Db	868	GGTCTAAGCCAGGAATCTGAAAACCTGCACAGATGGTCTTTGCATCCTAGGCATTGAGAAT	927
Qy	952	CCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC	1011
Db	928	GCCAGCGACATTGCTTTGTACTCGGGCTTG-----GTGC	962
Qy	1012	TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC	1071
Db	963	TGCCGTCTGTGGCCGTTGCAGTCCTGGTCATTGGTGTACACCTTTACAGACGGA-----	1015
Qy	1072	AActGTaccagtgacctctgtgtacacagtgcatttctggccctgaggacgtggccctctat	1131
Db	1016	----GCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACAGGTGGCTTC	1071
Qy	1132	GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCGTT	1191
Db	1072	CAGACCTTCAACTTCAAAACAGTCCGTCAAGCCAAGAATATCATGGAAC TAATGATACAA	1131
Qy	1192	TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA	1251
Db	1132	GAAAAATCCTTTGGTA ACTCCCTGCTCCTGAATTCTGCCATGCAGCCAGATCTGACAGTG	1191
Qy	1252	GGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC	1311
Db	1192	AGCCGGACATA CAGCGGACCCATCTGTCTGCAGGACCCTCTGGACAAGGAGCTCATGACA	1251
Qy	1312	CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT	1371
Db	1252	GAGTCCTCACTCTTTAACCCCTTTGTGCGGACATCAAAGTGAAAGTCCAGAGCTCGTT CATG	1311

Qy 1372 GGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1431  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1312 GTTTCCTGGGAGTGTCTGAGAGAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTT 1371

Qy 1432 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1491  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1372 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCAGAAATAAAATGCCCTACATC 1431

Qy 1492 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1551  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1432 CAAAATCTGTC-----ATCACTCCCCACAAGGACAGAACTGAGGACAACCTGGTGTC 1482

Qy 1552 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1611  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1483 TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1542

Qy 1612 CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1671  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1543 CACGGTGCCATCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1599

Qy 1672 GACGTGAGGTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1731  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1600 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT 1659

Qy 1732 CCCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1791  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1660 CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1719

Qy 1792 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1851  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1720 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1779

Qy 1852 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1911  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1780 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1833

Qy 1912 GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1971  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1834 GCGTGTGTCATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1893

Qy 1972 GTGGCTGCCGCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 2031  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1894 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCCTGTAACCTCCCTG 1953

Qy 2032 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2091  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 1954 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGGTT 2013

Qy 2092 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGTCTTGCCTTCAAG 2151  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2014 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2073

Qy 2152 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGT 2211  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 2074 GGGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATCCCCCATTCCTCTGGAGAATT 2133

Qy 2212 AAGCTCCTTGTGCTGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG 2271



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      || | | | || ||||| |||| || | | | ||| | | | || |
Db      2134 AAACCATTCACTGCCTGCCAGGAAGTCCCCTTCTCCCGCGTGTGGTGCAGTAACCGGCAG 2193

Qy      2272 TACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGC 2331
      | ||||| ||||| ||||| ||||| | |||| | | | ||| |||||
Db      2194 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTCTGC 2253

Qy      2332 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2391
      || | | | |||| | | |||| | |||| | |||| | | | |||
Db      2254 AAAATCTGCATTTCGGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2313

Qy      2392 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2451
      || | | | | | | | | | | | | | | | |||| |
Db      2314 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCTGCA 2373

Qy      2452 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTGGCAGAAGATAATTTCCAGC 2511
      | | | ||||| ||||| || |||| | || | ||| || | | |
Db      2374 CAGACTGGCCCCAAAGCCTTCAAATTCCCTACTCCATCAGACAGCGGATTTGTGCTACA 2433

Qy      2512 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2571
      | || | || | | || ||||| || | | ||||| | | |
Db      2434 TTTGATACCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAACAGCATC 2493

Qy      2572 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2631
      |||| | | | | | | | | |||| | || | |||||
Db      2494 AACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGTCATTTTGAACCTG 2553

Qy      2632 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2691
      |||| | | || | | | | | | | | |||| | | | |
Db      2554 TGGGAAGCTCGTCATCAGCATGATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2613

Qy      2692 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAG 2736
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Db      2614 ATGGGAGGACACACAGAACTCTCAAACATTTCAGAATCCCAG 2658

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RESULT 11

US-09-969-532-13

; Sequence 13, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 13

; LENGTH: 2694

; TYPE: DNA

; ORGANISM: homo sapiens

US-09-969-532-13

Query Match 16.7%; Score 460.2; DB 4; Length 2694;  
Best Local Similarity 51.9%; Pred. No. 2.7e-93;  
Matches 1330; Conservative 0; Mismatches 1163; Indels 72; Gaps 10;

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Qy      172 CTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTG 231
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Db      157 CTGCCTCATTTCATAGAGGAGCCAGATGATGCTTATATTATCAAGAGCAACCCTATTGCA 216

Qy      232 CTTGTGTGCAAGGCCGTGCCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG 291
      || || || || || || || || || || || || || || || || || || || ||
Db      217 CTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATGCAACGGCGAGTGGGTC 276

Qy      292 CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATG 351
      | ||| || || || || || || || || || || || || || || || || ||
Db      277 CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGC 336

Qy      352 GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAGGAATAC 411
      || || || || || || || || || || || || || || || || || || || ||
Db      337 GAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCCGAGGACTAT 396

Qy      412 TGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC 471
      || || || || || || || || || || || || || || || || || || || ||
Db      397 TGGTGCCAGTGTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTG 456

Qy      472 CGCATAGCCAGATTGCGCAAGAACCTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG 531
      || || || || || || || || || || || || || || || || || || || ||
Db      457 CGCATAGCCTATTTACGGAAAACTTTGAACAAGACCCACAAGGAAGGGAAGTTCCCATT 516

Qy      532 GAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAG 591
      || || || || || || || || || || || || || || || || || || || ||
Db      517 GAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA 576

Qy      592 TGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGG 651
      || || || || || || || || || || || || || || || || || || || ||
Db      577 TGGCTGAAAAATGAAGAGCCCATTGACTCTGAACAAGACGAGAACATTGACACCAGGGCT 636

Qy      652 GAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTG 711
      || || || || || || || || || || || || || || || || || || || ||
Db      637 GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG 696

Qy      712 GCCAAGAACATCGTGGCACGTGCGCCGAGCGCCTCCGCTGCTGTATCGTCTACGTGAAC 771
      || || || || || || || || || || || || || || || || || || || ||
Db      697 GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT 756

Qy      772 GGTGGGTGGTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGG 831
      || || || || || || || || || || || || || || || || || || || ||
Db      757 GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCTGCAGTCCAGAGTGTG-----AA 807

Qy      832 CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG 891
      || || || || || || || || || || || || || || || || || || || ||
Db      808 CATTTGCGGATCCGGGAGTGCACAGCACACCCCGAGAAATGGGGGCAAATTCCTGTGAA 867

Qy      892 GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGC 951
      || || || || || || || || || || || || || || || || || || || ||
Db      868 GGTC--TAAGCCAGGAATCTGAAACTGCACAGATGGTCTTTGCATCCTAGATAAAAAAC 925
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Qy 952 CCGTGGAGCAAGTGGTGGGCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC 1011  
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 Db 926 CTCTTCATGAAATAAAACCCCAAAGCATTGAG----AATGCCAGCGACATTGCTTTGTAC 981

Qy 1012 TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC 1071  
 | | | | | | | | | | | | | | | | | |  
 Db 982 TCGGGCTTGGGTGCTGCCGTGCTGGCCGTTGCAGTCCTGGTCATTGGTGT-----CACC 1035

Qy 1072 AACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTAT 1131  
 | | | | | | | | | | | | | | | | | |  
 Db 1036 CTTTACAGACGGAGCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACA 1095

Qy 1132 GTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCGTT 1191  
 | | | | | | | | | | | | | | | | | |  
 Db 1096 GGTGGCTTCCAGACCTTCAACTTCAAACAGTCCGTCAAGGTAACCTCCCTGCTCCTGAAT 1155

Qy 1192 TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA 1251  
 | | | | | | | | | | | | | | | | | |  
 Db 1156 TCTGCCATGCA-----GCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCT 1207

Qy 1252 GGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC 1311  
 | | | | | | | | | | | | | | | | | |  
 Db 1208 GTCTGCAGGACCCTCTGGACAAG--AGCTCATGACAGAGTCCTCACTCTTTAACCTT 1264

Qy 1312 CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT 1371  
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 Db 1265 TGTCGGACATCAAAGTGAAAGTCCAGAGCTCGTTCATGGTTTCCCTGGGAGTGTCTGAGA 1324

Qy 1372 GGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC 1431  
 | | | | | | | | | | | | | | | | | |  
 Db 1325 GAGCTGAGTACCACGGCAAGAATCATTCAGGACTTTT----- 1362

Qy 1432 CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC 1491  
 | | | | | | | | | | | | | | | | | |  
 Db 1363 CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCAGAAATAAAATGCCCTACATC 1422

Qy 1492 TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC 1551  
 | | | | | | | | | | | | | | | | | |  
 Db 1423 CAAAATCTG-----TCATCACTCCCCACAAGGACAGAACTGAGGACAACCTGGTGTCT 1473

Qy 1552 TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1611  
 | | | | | | | | | | | | | | | | | |  
 Db 1474 TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA 1533

Qy 1612 CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA 1671  
 | | | | | | | | | | | | | | | | | |  
 Db 1534 CACGGTGCCATCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT 1590

Qy 1672 GACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA 1731  
 | | | | | | | | | | | | | | | | | |  
 Db 1591 GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCCTGAAGTCACCTGTGGT 1650

Qy 1732 CCCCCTGGCGTCTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC 1791  
 | | | | | | | | | | | | | | | | | |  
 Db 1651 CCTCCAGACATGATCGTCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC 1710

Qy 1792 AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT 1851

Db 1711 AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA 1770  
 Qy 1852 GTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGT 1911  
 Db 1771 GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT 1824  
 Qy 1912 GCCTGCTACGTCTTCACCGAGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCCCTCAGC 1971  
 Db 1825 GCGTGT CATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA 1884  
 Qy 1972 GTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC 2031  
 Db 1885 GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTGGCTGCATGTCCTGTAACCTCCCTG 1944  
 Qy 2032 GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG 2091  
 Db 1945 GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTT CAGGAAGTGGTT 2004  
 Qy 2092 CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACCTTCAAG 2151  
 Db 2005 TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAA 2064  
 Qy 2152 GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGT 2211  
 Db 2065 GGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATTCCCCCATTCCTCTGGAGAATT 2124  
 Qy 2212 AAGCTCCTTGT CAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCAGCGAGCGG 2271  
 Db 2125 AAACCATTCACTGCCTGCCAGGAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAG 2184  
 Qy 2272 TACTTGCACCTGCACCTTCACCCTGGAGCGTGT CAGCCCCAGCACTAGTGACCTGGCCTGC 2331  
 Db 2185 CCCCTGCACTGTGCCTTCTCCCTGGAGCGTTATACGCCCACTACCACCCAGCTGTCTGC 2244  
 Qy 2332 AAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATC 2391  
 Db 2245 AAAATCTGCATTCGGCAGCTCAAAGGCCATGAACAGATCCTCCAAGTGCAGACATCAATC 2304  
 Qy 2392 ACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCC 2451  
 Db 2305 CTAGAGAGTGAACGAGAAACCATCACTTTCTTCGCACAAGAGGACAGCACTTTCCCTGCA 2364  
 Qy 2452 CTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGC 2511  
 Db 2365 CAGACTGGCCCCAAAGCCTTCAAATTCCTACTCCATCAGACAGCGGATTTGTGCTACA 2424  
 Qy 2512 CTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTG 2571  
 Db 2425 TTTGATACCCCAATGCCAAAGGCAAGGACTGGCAGATGTTAGCACAGAAAAACAGCATC 2484  
 Qy 2572 GACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTG 2631  
 Db 2485 AACAGGAATTTATCTTATTTTCGCTACACAAAGTAGCCCATCTGCTGT CATTTTGAACCTG 2544  
 Qy 2632 TGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGA 2691

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Db      2545 TGGGAAGCTCGTCATCAGCATGATGGTGATCTTGACTCCCTGGCCTGTGCCCTTGAAGAG 2604
Qy      2692 CTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAG 2736
          | | | | | | | | | | | | | | | | | |
Db      2605 ATTGGGAGGACACACACGAAACTCTCAAACATTTTCAAGATCCCAG 2649

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RESULT 12

US-09-969-532-15

; Sequence 15, Application US/09969532

; Patent No. 6777232

; GENERAL INFORMATION:

; APPLICANT: Walke, D. Wade

; APPLICANT: Scoville, John

; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides  
Encoding the Same

; FILE REFERENCE: LEX-0244-USA

; CURRENT APPLICATION NUMBER: US/09/969,532

; CURRENT FILING DATE: 2001-10-02

; PRIOR APPLICATION NUMBER: US 60/237,280

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 33

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 15

; LENGTH: 2661

; TYPE: DNA

; ORGANISM: homo sapiens

US-09-969-532-15

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Query Match          16.0%; Score 439.8; DB 4; Length 2661;
Best Local Similarity 51.2%; Pred. No. 9.9e-89;
Matches 1313; Conservative 0; Mismatches 1147; Indels 105; Gaps 8;

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Qy      172 CTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTG 231
          | | | | | | | | | | | | | | | | | |
Db      157 CTGCCTCATTTCATAGAGGAGCCAGATGATGCTTATATTATCAAGAGCAACCCTATTGCA 216

Qy      232 CTTGTGTGCAAGGCCGTGCCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTG 291
          | | | | | | | | | | | | | | | | | |
Db      217 CTCAGGTGCAAAGCGAGGCCAGCCATGCAGATATTCTTCAAATGCAACGGCGAGTGGGTC 276

Qy      292 CGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATG 351
          | | | | | | | | | | | | | | | | | |
Db      277 CATCAGAACGAGCACGTCTCTGAAGAGACTCTGGACGAGAGCTCAGGTTTGAAGGTCCGC 336

Qy      352 GAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAGGAATAC 411
          | | | | | | | | | | | | | | | | | |
Db      337 GAAGTGTTTCATCAATGTTACTAGGCAACAGGTGGAGGACTTCCATGGGCCCAGGACTAT 396

Qy      412 TGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATC 471
          | | | | | | | | | | | | | | | | | |
Db      397 TGGTGCCAGTGTGTGGCGTGGAGCCACCTGGGTACCTCCAAGAGCAGGAAGGCCTCTGTG 456

Qy      472 CGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTG 531
          | | | | | | | | | | | | | | | | | |
Db      457 CGCATAGCCTATTTACGGAAAACTTTGAACAAGACCCACAAGGAAGGGAAGTTCCCATT 516

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Qy	532	GAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGGCATCCCCTCCAGCCGAGGTGGAG	591
Db	517	GAAGGCATGATTGTACTGCACTGCCGCCACCAGAGGGAGTCCCTGCTGCCGAGGTGGAA	576
Qy	592	TGGCTCCGGAACGAGGACCTGGTGGACCCGTCCTGGACCCAATGTATACATCACGCGG	651
Db	577	TGGCTGAAAAATGAAGAGCCCATTGACTCTGAACAAGACGAGAACATTGACACCAGGGCT	636
Qy	652	GAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAATACTACACCTGCGTG	711
Db	637	GACCATAACCTGATCATCAGGCAGGCACGGCTCTCGGACTCAGGAAATTACACCTGCATG	696
Qy	712	GCCAAGAACATCGTGGCACGTCGCCGCAGCGCCTCCGCTGCTGTCATCGTCTACGTGAAC	771
Db	697	GCAGCCAACATCGTGGCTAAGAGGAGAAGCCTGTCGGCCACTGTTGTGGTCTACGTGGAT	756
Qy	772	GGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCGTCAGCGCCAGCTGTGGGCGCGGCTGG	831
Db	757	GGGAGCTGGGAAGTGTGGAGCGAATGGTCCGTCGTCAGTCCAGAGTGTG-----AA	807
Qy	832	CAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAG	891
Db	808	CATTTGCGGATCCGGGAGTGCACAGCACCACCCCCGAGAAAATGGGGGCAAATTCTGTGAA	867
Qy	892	GGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGC	951
Db	868	GGTCTAAGCCAGGAATCTGAAAACGTCACAGATGGTCTTTGCATCCTAGGCATTGAGAAT	927
Qy	952	CCGTGGAGCAAGTGGTCCGCCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGC	1011
Db	928	GCCAGCGACATTGCTTTGTACTCGGGCTTGG-----	958
Qy	1012	TCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGC	1071
Db	959	-----GTGCTGCCGTCTGGCCGTTGCAGTCTTGGTCATTGGTGTACC	1002
Qy	1072	AAGTGTACCAAGTACCTCTGTGTACACAGTGTCTTGGCCCTGAGGACGTGGCCCTCTAT	1131
Db	1003	CTTTACAGACGGAGCCAGAGTGACTATGGCGTGGACGTCATTGACTCTTCTGCATTGACA	1062
Qy	1132	GTGGGCCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTTGTCTCATCTCTGTT	1191
Db	1063	GGTGGCTTCCAGACCTTCAACTTCAAAACAGTCCGTCAAGGTAAGTCCCTGCTCCTGAAT	1122
Qy	1192	TATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCA	1251
		.	
Db	1123	TCTGCCATGCA-----GCCAGATCTGACAGTGAGCCGGACATACAGCGGACCCATCT	1174
Qy	1252	GGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCCATCTGCTCACCATC	1311
Db	1175	GTCTGCAGGACCCTCTGGACAAGG---AGCTCATGACAGAGTCTCACTCTTTAACCCCTT	1231
Qy	1312	CAGCCGGACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGAT	1371
Db	1232	TGTCGGACATCAAAGTGAAAGTCCAGAGCTCGTTTCATGGTTTCCCTGGGAGTGTCTGAGA	1291
Qy	1372	GGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGC	1431

Db	1292	GAGCTGAGTACCACGGCAAGAATCATTCCAGGACTTTT-----	1329
Qy	1432	CGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTC	1491
Db	1330	CCCCATGGAAACAACCACAGCTTTAGTACAATGCATCCCAGAAATAAAATGCCCTACATC	1389
Qy	1492	TCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACC	1551
Db	1390	CAAAATCTGT-----CATCACTCCCCACAAGGACAGAACTGAGGACAACTGGTGTC	1440
Qy	1552	TTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC	1611
Db	1441	TTTGGCCATTTAGGGGGGCGCTTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCA	1500
Qy	1612	CCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAA	1671
Db	1501	CACGGTGCCATCCCAGAGGAGAATTCTTGGGAGATTTATATGTCCAT---CAACCAAGGT	1557
Qy	1672	GACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGA	1731
Db	1558	GAACCCAGCCTCCAGTCAGATGGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGT	1617
Qy	1732	CCCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCC	1791
Db	1618	CCTCCAGACATGATCGTCACCACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTC	1677
Qy	1792	AGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGAT	1851
Db	1678	AGTTCTGAGCATTGGAATATCCATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAA	1737
Qy	1852	GTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGT	1911
Db	1738	GTGATGTCAGTGGAAGATGAATCTACATC-----CTGTTACTGCCTTTTGGACCCCTTT	1791
Qy	1912	GCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGC	1971
Db	1792	GCGTGTCATGTGCTCCTGGACAGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACA	1851
Qy	1972	GTGGCTGCCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTC	2031
Db	1852	GACTGTGCCGTGAAGCAACTGAAGGTGGCGGTTTTTTGGCTGCATGTCCTGTAACCTCCCTG	1911
Qy	2032	GAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTG	2091
Db	1912	GATTACAACCTTGAGAGTTTACTGTGTGGACAATACCCCTTGTGCATTTTCAGGAAGTGTT	1971
Qy	2092	CAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGTCCCTGCACCTTCAAG	2151
Db	1972	TCAGATGAAAGGCATCAAGGTGGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAAA	2031
Qy	2152	GACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGT	2211
Db	2032	GGGAATACCTTTAGTCTTCAGATTTCTGTCTTGATATTCCCCCATTCCTCTGGAGAATT	2091
Qy	2212	AAGCTCCTTGTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGG	2271





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; LENGTH: 349
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 207..347
; NAME/KEY: sig_peptide
; LOCATION: 207..278
; OTHER INFORMATION: Von Heijne matrix
; OTHER INFORMATION: score 5.40000009536743
; OTHER INFORMATION: seq SCCCLSSSSFIAG/RR
US-09-471-276-345
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Query Match          11.7%; Score 323; DB 4; Length 349;
Best Local Similarity 98.8%; Pred. No. 6.9e-63;
Matches 335; Conservative 1; Mismatches 2; Indels 1; Gaps 1;
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Qy      934 GTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCAC 993
      || |||||
Db      12  GTGGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCAC 71

Qy      994 TGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGC 1053
      ||||| |||||
Db      72  TGGCGGA-CCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGC 130

Qy      1054 ACTGACCTGGACACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCT 1113
      ||||| |||||
Db      131 ACTGACCTGGACACCCGCAACTGTACCACTGACCTCTGTGTACACACTGCTTCTGGCCCT 190

Qy      1114 GAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTG 1173
      ||||| |||||
Db      191 GAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCBTGGTCCTGCTGCTG 250

Qy      1174 CTTGTCCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGAC 1233
      ||||| |||||
Db      251 CTTGTCCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGAC 310

Qy      1234 TCGTCCATTCTCACCTCAGGCTTCCAGCCCGTCAGCATC 1272
      |||||
Db      311 TCGTCCATTCTCACCTCAGGCTTCCAGCCCGTCAGCATC 349
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# RESULT 14

US-09-969-532-31

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; Sequence 31, Application US/09969532
; Patent No. 6777232
; GENERAL INFORMATION:
; APPLICANT: Walke, D. Wade
; APPLICANT: Scoville, John
; TITLE OF INVENTION: No. 6777232el Human Membrane Proteins and Polynucleotides
Encoding the Same
; FILE REFERENCE: LEX-0244-USA
; CURRENT APPLICATION NUMBER: US/09/969,532
; CURRENT FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US 60/237,280
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 33
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; SOFTWARE: FastSEQ for Windows Version 4.0  
; SEQ ID NO 31  
; LENGTH: 1968  
; TYPE: DNA  
; ORGANISM: homo sapiens  
US-09-969-532-31

Query Match 10.7%; Score 293.2; DB 4; Length 1968;  
Best Local Similarity 53.7%; Pred. No. 5.8e-56;  
Matches 657; Conservative 0; Mismatches 558; Indels 9; Gaps 2;

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Qy      1513 TCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTCCTCGGGGGCCGG 1572
          || || || | | | | | | | | | | | | | | | | | | | |
Db      709 TCACTCCCCACAAGGACAGAAGTGAAGGACAAGTGGTGTCTTTGGCCATTTAGGGGGGCGC 768

Qy      1573 CTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCGAGGG 1632
          | | | | | | | | | | | | | | | | | | | | | | | |
Db      769 TTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCACACGGTGCCATCCCAGAGGAG 828

Qy      1633 AAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCCCTAGCT 1692
          || | | | | | | | | | | | | | | | | | | | | | |
Db      829 AATTCTTGGGAGATTTATATGTCCATCAACCAAGGTGAACCC---AGCCTCCAGTCAGAT 885

Qy      1693 GGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCTGGCGTCCTGCTCACC 1752
          || | | | | | | | | | | | | | | | | | | | | | |
Db      886 GGCTCTGAGGTGCTCCTGAGTCTGAAGTCACCTGTGGTCCTCCAGACATGATCGTCACC 945

Qy      1753 CGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCCTG 1812
          || | | | | | | | | | | | | | | | | | | | | | |
Db      946 ACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTCAGTTCTGAGCATTTGGAATATC 1005

Qy      1813 CGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAG 1872
          | | | | | | | | | | | | | | | | | | | | | | | |
Db      1006 CATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAAGTGATGTCAGTGGAAGATGAA 1065

Qy      1873 GCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCGAG 1932
          | | | | | | | | | | | | | | | | | | | | | | | |
Db      1066 TCTACATC-----CTGTTACTGCCTTTTGGACCCCTTTGCGTGTGTCATGTGCTCCTGGAC 1119

Qy      1933 CAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTC 1992
          | | | | | | | | | | | | | | | | | | | | | | | |
Db      1120 AGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACAGACTGTGCCGTGAAGCAACTG 1179

Qy      1993 AAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTAC 2052
          || | | | | | | | | | | | | | | | | | | | | | |
Db      1180 AAGGTGGCGGTTTTTGGCTGCATGTCTGTAACTCCCTGGATTACAACCTGAGAGTTTAC 1239

Qy      2053 TGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGG 2112
          || | | | | | | | | | | | | | | | | | | | | | |
Db      1240 TGTGTGGACAATACCCCTTGTGCATTTAGGAAGTGGTTTCAGATGAAAGGCATCAAGGT 1299

Qy      2113 GGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTACCACAACCTGCGC 2172
          || | | | | | | | | | | | | | | | | | | | | | |
Db      1300 GGACAGCTCCTGGAAGAACCAAAATTGCTGCATTTCAAAGGGAATACCTTTAGTCTTCAG 1359

Qy      2173 CTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACCAG 2232
          | | | | | | | | | | | | | | | | | | | | | | | |
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; TYPE: DNA  
; ORGANISM: homo sapiens  
US-09-969-532-29

Query Match 10.7%; Score 293.2; DB 4; Length 2001;  
Best Local Similarity 53.7%; Pred. No. 5.8e-56;  
Matches 657; Conservative 0; Mismatches 558; Indels 9; Gaps 2;

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Qy      1513 TCCCTGCCCCGAGGCACCAACATGACCTATGGGACCTTCAACTTCCTCGGGGGCCGG 1572
          ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      742 TCACTCCCCACAAGGACAGAACTGAGGACAACTGGTGTCTTTGGCCATTTAGGGGGGCGC 801

Qy      1573 CTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCCATACCCCCGAGGG 1632
          | | ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      802 TTAGTAATGCCAAATACAGGGGTGAGCTTACTCATACCACACGGTGCCATCCCAGAGGAG 861

Qy      1633 AAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGGTTGCCCCCTAGCT 1692
          || | ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      862 AATTCTTGGGAGATTTATATGTCCATCAACCAAGGTGAACCC---AGCCTCCAGTCAGAT 918

Qy      1693 GGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCTGGCGTCCTGCTCACC 1752
          |||| | || ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      919 GGCTCTGAGGTGCTCCTGAGTCCTGAAGTCACCTGTGGTCCTCCAGACATGATCGTCACC 978

Qy      1753 CGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGACAGCTGGAGCCTG 1812
          || | ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      979 ACTCCCTTTGCATTGACCATCCCGCACTGTGCAGATGTCAGTTCTGAGCATTGGAATATC 1038

Qy      1813 CGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCACCTGGGCGAGGAG 1872
          | | ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1039 CATTTAAAGAAGAGGACACAGCAGGGCAAATGGGAGGAAGTGATGTCAGTGGAAGATGAA 1098

Qy      1873 GCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTACGTCTTCACCGAG 1932
          | | || ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1099 TCTACATC-----CTGTTACTGCCTTTTGGACCCCTTTGCGTGTGTCATGTGCTCCTGGAC 1152

Qy      1933 CAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCCGCCAAGCGCCTC 1992
          || || ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1153 AGCTTTGGGACCTATGCGCTCACTGGAGAGCCAATCACAGACTGTGCCGTGAAGCAACTG 1212

Qy      1993 AAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAACATCCGGGTCTAC 2052
          ||| || ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1213 AAGGTGGCGGTTTTTGGCTGCATGTCTGTAACCTCCCTGGATTACAACCTGAGAGTTTAC 1272

Qy      2053 TGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAGAAGCAGCTGGGG 2112
          || || | | ||| ||| ||| ||| ||| ||| ||| |||
Db      1273 TGTGTGGACAATACCCCTTGTGCATTTAGGAAGTGGTTTCAGATGAAAGGCATCAAGGT 1332

Qy      2113 GGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTACCACAACCTGCGC 2172
          ||||| || | ||| ||| ||| ||| ||| ||| ||| |||
Db      1333 GGACAGCTCCTGGAAGAACCAAATGCTGCATTTCAAAGGGAATACCTTTAGTCTTCAG 1392

Qy      2173 CTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTTGTGAGCTACCAG 2232
          | || ||| ||| ||| ||| ||| ||| ||| ||| |||
Db      1393 ATTTCTGTCCTTGATATTCCCCCATTCCTCTGGAGAATTAAACCATTCACTGCCTGCCAG 1452

Qy      2233 GAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCACTGCACCTTCACC 2292
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Db 1453 GAAGTCCCGTTCTCCCGCGTGTGGTGCAGTAACCGGCAGCCCCTGCACTGTGCCTTCTCC 1512  
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 Job time : 450.33 secs

OM nucleic - nucleic search, using sw model

Run on: March 6, 2005, 05:25:16 ; Search time 1488.37 Seconds  
(without alignments)  
10971.677 Million cell updates/sec

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Perfect score: 2752  
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Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 5401638 seqs, 2966923429 residues

Total number of hits satisfying chosen parameters: 10803276

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Post-processing: Minimum Match 0%  
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Database : Published Applications\_NA:\*

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- 22: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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2	2752	100.0	2752	17	US-10-624-932-1	Sequence 1, Appli	
3	2676.4	97.3	2881	10	US-09-970-944-1	Sequence 1, Appli	
4	2356	85.6	3561	18	US-10-643-795A-77	Sequence 77, Appl	
5	2356	85.6	3580	17	US-10-311-623-13	Sequence 13, Appl	
6	2259	82.1	3014	10	US-09-933-261-1	Sequence 1, Appli	
7	2259	82.1	3014	14	US-10-256-702-1	Sequence 1, Appli	
8	2252.2	81.8	2697	16	US-10-240-154-15	Sequence 15, Appl	
9	1562.4	56.8	1787	10	US-09-933-261-2	Sequence 2, Appli	
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11	1206.6	43.8	1321	17	US-10-296-115-365	Sequence 365, App	
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14	936.2	34.0	2860	17	US-10-218-779-1	Sequence 1, Appli	
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16	913.6	33.2	2895	17	US-10-037-417-37	Sequence 37, Appl	
17	904	32.8	3485	9	US-09-816-828-18	Sequence 18, Appl	
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43	902.4	32.8	3884	14	US-10-123-903-145	Sequence 145, App	
44	902.4	32.8	3884	14	US-10-124-819-145	Sequence 145, App	
45	902.4	32.8	3884	14	US-10-124-822-145	Sequence 145, App	

## ALIGNMENTS

RESULT 1  
US-09-918-779-1

; Sequence 1, Application US/09918779  
; Publication No. US20030064369A1  
; GENERAL INFORMATION:  
; APPLICANT: Taupier, Raymond  
; APPLICANT: Padigaru, Muralidhara  
; APPLICANT: Rastelli, Luca  
; APPLICANT: Spaderna, Steven  
; APPLICANT: Shimkets, Richard  
; APPLICANT: Zerhusen, Bryan  
; APPLICANT: Spytek, Kimberly  
; APPLICANT: Shenoy, Suresh  
; APPLICANT: Li, Li  
; APPLICANT: Gusev, Vladimir  
; APPLICANT: Grosse, William  
; APPLICANT: Alsobrook, John  
; APPLICANT: Lepley, Denise  
; APPLICANT: Burgess, Catherine  
; APPLICANT: Gerlach, Valerie  
; APPLICANT: Ellerman, Karen  
; APPLICANT: MacDougall, John  
; APPLICANT: Stone, David  
; APPLICANT: Smithson, Glennda  
; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
; FILE REFERENCE: 21402-074 US  
; CURRENT APPLICATION NUMBER: US/09/918,779  
; CURRENT FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: 60/221,409  
; PRIOR FILING DATE: 2000-07-28  
; PRIOR APPLICATION NUMBER: 60/222,840  
; PRIOR FILING DATE: 2000-08-04  
; PRIOR APPLICATION NUMBER: 60/223,752  
; PRIOR FILING DATE: 2000-08-08  
; PRIOR APPLICATION NUMBER: 60/223,762  
; PRIOR FILING DATE: 2000-08-08  
; PRIOR APPLICATION NUMBER: 60/223,770  
; PRIOR FILING DATE: 2000-08-08  
; PRIOR APPLICATION NUMBER: 60/223,769  
; PRIOR FILING DATE: 2000-08-08  
; PRIOR APPLICATION NUMBER: 60/225,146  
; PRIOR FILING DATE: 2000-08-14  
; PRIOR APPLICATION NUMBER: 60/225,392  
; PRIOR FILING DATE: 2000-08-15  
; PRIOR APPLICATION NUMBER: 60/225,470  
; PRIOR FILING DATE: 2000-08-15  
; PRIOR APPLICATION NUMBER: 60/225,697  
; PRIOR FILING DATE: 2000-08-16  
; PRIOR APPLICATION NUMBER: 60/263,662  
; PRIOR FILING DATE: 2001-02-01  
; PRIOR APPLICATION NUMBER: 60/281,645  
; PRIOR FILING DATE: 2001-04-05  
; NUMBER OF SEQ ID NOS: 61  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 2752  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-918-779-1



Query Match 100.0%; Score 2752; DB 10; Length 2752;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2752; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	61	GGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTCCGCGGCTCGGGTGCC	120
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Qy	121	CAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCAC	180
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Qy	181	TTCTTGGTGGAGCCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGC	240
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Db	241	AAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTG	300
Qy	301	GACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATGGAGGTCCGC	360
Db	301	GACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATGGAGGTCCGC	360
Qy	361	ATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTTCGGGCTGGAGGAATACTGGTGCCAG	420
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Qy	421	TGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCCTACATCCGCATAGCC	480
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Qy	481	AGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGC	540
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Qy	541	ATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGG	600
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Qy	781	TCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGG	840
Db	781	TCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGG	840
Qy	841	AGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAAT	900
Db	841	AGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAAT	900
Qy	901	GTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGC	960
Db	901	GTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGC	960
Qy	961	AAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCA	1020
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Qy	1141	ATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGG	1200
Db	1141	ATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGG	1200
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Db	1261	CCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCATCTGCTCACCATCCAGCCGGAC	1320
Qy	1321	CTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGATGGGCCCAGC	1380
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Qy	1381	CCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACACA	1440
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Db	1801		AGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCAC	1860
Qy	1861		CTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTAC	1920
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Qy	1921		GTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCC	1980
Db	1921		GTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCC	1980
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Db	1981		GCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAAC	2040
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Qy	2101		AAGCAGCTGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTAC	2160
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Qy	2161		CACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTT	2220
Db	2161		CACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTT	2220
Qy	2221		GTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCAC	2280
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Qy	2281		TGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGG	2340
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Qy	2341		GTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCACCAAGGAC	2400
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RESULT 2

US-10-624-932-1

; Sequence 1, Application US/10624932  
 ; Publication No. US20040096877A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Taupier, Raymond  
 ; APPLICANT: Padigar, Muralidhara  
 ; APPLICANT: Rastelli, Luca  
 ; APPLICANT: Spaderna, Steven  
 ; APPLICANT: Shimkets, Richard  
 ; APPLICANT: Zerhusen, Bryan  
 ; APPLICANT: Spytek, Kimberly  
 ; APPLICANT: Shenoy, Suresh  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Gusev, Vladimir  
 ; APPLICANT: Grosse, William  
 ; APPLICANT: Alsobrook, John  
 ; APPLICANT: Lepley, Denise  
 ; APPLICANT: Burgess, Catherine  
 ; APPLICANT: Gerlach, Valerie  
 ; APPLICANT: Ellerman, Karen  
 ; APPLICANT: MacDougall, John  
 ; APPLICANT: Stone, David  
 ; APPLICANT: Smithson, Glennda  
 ; TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same  
 ; FILE REFERENCE: 21402-074 US  
 ; CURRENT APPLICATION NUMBER: US/10/624,932  
 ; CURRENT FILING DATE: 2003-07-21  
 ; PRIOR APPLICATION NUMBER: 09/918,779  
 ; PRIOR FILING DATE: 2001-07-03  
 ; PRIOR APPLICATION NUMBER: 60/221,409  
 ; PRIOR FILING DATE: 2000-07-28  
 ; PRIOR APPLICATION NUMBER: 60/222,840  
 ; PRIOR FILING DATE: 2000-08-04  
 ; PRIOR APPLICATION NUMBER: 60/223,752  
 ; PRIOR FILING DATE: 2000-08-08  
 ; PRIOR APPLICATION NUMBER: 60/223,762  
 ; PRIOR FILING DATE: 2000-08-08



Db	481	AGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGC	540
Qy	541	ATCGTGCTGCCCTGCCGTCCACCGGAGGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGG	600
Db	541	ATCGTGCTGCCCTGCCGTCCACCGGAGGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGG	600
Qy	601	AACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGGGAGCACAGC	660
Db	601	AACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGGGAGCACAGC	660
Qy	661	CTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAAC	720
Db	661	CTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAAC	720
Qy	721	ATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTATCGTCTACGTGAACGGTGGGTGG	780
Db	721	ATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTATCGTCTACGTGAACGGTGGGTGG	780
Qy	781	TCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGG	840
Db	781	TCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGG	840
Qy	841	AGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAAT	900
Db	841	AGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAAT	900
Qy	901	GTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGC	960
Db	901	GTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGC	960
Qy	961	AAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCA	1020
Db	961	AAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCA	1020
Qy	1021	GCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACC	1080
Db	1021	GCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACC	1080
Qy	1081	AGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTC	1140
Db	1081	AGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTC	1140
Qy	1141	ATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGG	1200
Db	1141	ATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGG	1200
Qy	1201	AAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCAGGCTTCCAG	1260
Db	1201	AAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCAGGCTTCCAG	1260
Qy	1261	CCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATCCAGCCGGAC	1320
Db	1261	CCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATCCAGCCGGAC	1320
Qy	1321	CTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGATGGGCCCAGC	1380
Db	1321	CTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGATGGGCCCAGC	1380

Qy	1381	CCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACACA	1440
Db	1381	CCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACACA	1440
Qy	1441	CTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAG	1500
Db	1441	CTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAG	1500
Qy	1501	AACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTC	1560
Db	1501	AACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAACTTC	1560
Qy	1561	CTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCC	1620
Db	1561	CTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGATGCC	1620
Qy	1621	ATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGG	1680
Db	1621	ATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTGAGG	1680
Qy	1681	TTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCTGGC	1740
Db	1681	TTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCTGGC	1740
Qy	1741	GTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGAC	1800
Db	1741	GTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCTGAC	1800
Qy	1801	AGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCAC	1860
Db	1801	AGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATGTGCTGCAC	1860
Qy	1861	CTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTAC	1920
Db	1861	CTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCCTGCTAC	1920
Qy	1921	GTCTTCACCGAGCAGCTGGGCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCC	1980
Db	1921	GTCTTCACCGAGCAGCTGGGCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTGGCTGCC	1980
Qy	1981	GCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAAC	2040
Db	1981	GCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAGTACAAC	2040
Qy	2041	ATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAG	2100
Db	2041	ATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAGCTGGAG	2100
Qy	2101	AAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTAC	2160
Db	2101	AAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGACAGTTAC	2160
Qy	2161	CACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTT	2220
Db	2161	CACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTAAGCTCCTT	2220

Qy 2221 GTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCAC 2280  
 |||  
 Db 2221 GTCAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTACTTGCAC 2280

Qy 2281 TGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGG 2340  
 |||  
 Db 2281 TGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAGCTGTGG 2340

Qy 2341 GTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCACCAAGGAC 2400  
 |||  
 Db 2341 GTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCACCAAGGAC 2400

Qy 2401 ACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGC 2460  
 |||  
 Db 2401 ACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTGGTGGGC 2460

Qy 2461 CCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCA 2520  
 |||  
 Db 2461 CCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCAGCCTGGACCCA 2520

Qy 2521 CCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCAT 2580  
 |||  
 Db 2521 CCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGACAGCCAT 2580

Qy 2581 CTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCG 2640  
 |||  
 Db 2581 CTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGGGAGGCG 2640

Qy 2641 CGGCACCTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAG 2700  
 |||  
 Db 2641 CGGCACCTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTGGGCCAG 2700

Qy 2701 CCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGCTGAGGCCGGCCAG 2752  
 |||  
 Db 2701 CCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGCTGAGGCCGGCCAG 2752

# RESULT 3

US-09-970-944-1

; Sequence 1, Application US/09970944

; Publication No. US20030204052A1

; GENERAL INFORMATION:

; APPLICANT: Herrman, John L

; APPLICANT: Rastelli, Luca

; APPLICANT: Shimkets, Richard A

; TITLE OF INVENTION: No. US20030204052A1el. Proteins and Nucleic Acids Encoding Same and

; TITLE OF INVENTION: Antibodies Directed Against these Proteins

; FILE REFERENCE: 21402-138

; CURRENT APPLICATION NUMBER: US/09/970,944

; CURRENT FILING DATE: 2002-05-02

; PRIOR APPLICATION NUMBER: 60/237,862

; PRIOR FILING DATE: 2000-10-04

; NUMBER OF SEQ ID NOS: 62

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 1

; LENGTH: 2881



; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-970-944-1

Query Match 97.3%; Score 2676.4; DB 10; Length 2881;  
Best Local Similarity 98.9%; Pred. No. 0;  
Matches 2728; Conservative 0; Mismatches 21; Indels 9; Gaps 3;

Qy	1	CCGCGGGGCCCCGCGCCCGGCCCGCCCGCCTGCCCCGCCGCGGCCATGGCCGTCCGGCCC	60
Db	42	CCGCGGGGCCCCGCGCCCGGCCCGCCCGCCTGCCCCGCCGCGGCCATGGCCGTCCGGCCC	101
Qy	61	GGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTCCGCGGCTCGGGTGCC	120
Db	102	GGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTCCGCGGCTCGGGTGCC	161
Qy	121	CAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCAC	180
Db	162	CAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCAC	221
Qy	181	TTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGC	240
Db	222	TTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGC	281
Qy	241	AAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTG	300
Db	282	AAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTG	341
Qy	301	GACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCACCATGGAGGTCCGC	360
Db	342	GACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGTGAGCCGACCATGGAGGTCCGC	401
Qy	361	ATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTCTGGGCTGGAGGAATACTGGTGCCAG	420
Db	402	ATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTCTGGGCTGGAGGAATACTGGTGCCAG	461
Qy	421	TGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCC	480
Db	462	TGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCC	521
Qy	481	AGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGC	540
Db	522	AGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGC	581
Qy	541	ATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGG	600
Db	582	ATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGG	641
Qy	601	AACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGGGAGCACAGC	660
Db	642	AACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATCACGCGGGAGCACAGC	701
Qy	661	CTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAAC	720
Db	702	CTGGTGGTGCGACAGGCCCGCCTTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAAC	761
Qy	721	ATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTATCGTCTACGTGAACGGTGGGTGG	780

Db	762	 ATCGTGGCACGTCGCCGAGCGCCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGG	821
Qy	781	TCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGG	840
Db	822	 TCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGG	881
Qy	841	AGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAAT	900
Db	882	 AGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAAT	941
Qy	901	GTCCAGAA---AACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGCTGGAGCCCGTGG	957
Db	942	 GTCCATGACCGCACCGTCTCCTCTCTGCTTGTCTCTGTGGACGGCAGCTGGAGCCCGTGG	1001
Qy	958	AGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGAC	1017
Db	1002	 AGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGAC	1061
Qy	1018	CCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGCAACTGT	1077
Db	1062	 CCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGACACCCGCAACTGT	1121
Qy	1078	ACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGC	1137
Db	1122	 ACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGC	1181
Qy	1138	CTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGC	1197
Db	1182	 CTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGC	1241
Qy	1198	CGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCAGGCTTC	1257
Db	1242	 CGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCTCAGGCTTC	1301
Qy	1258	CAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATCCAGCCG	1317
Db	1302	 CAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACCATCCAGCCG	1361
Qy	1318	GACCTCAGCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGATGGGCCC	1377
Db	1362	 GACCTCAG---CACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGATGGGCCC	1418
Qy	1378	AGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCAC	1437
Db	1419	 AGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCAC	1478
Qy	1438	ACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACC	1497
Db	1479	 ACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACC	1538
Qy	1498	CAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAAC	1557
Db	1539	 CAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTCAAC	1598
Qy	1558	TTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGAT	1617

Db	1599	TTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCAGAT	1658
Qy	1618	GCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTG	1677
Db	1659	GCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGACGTG	1718
Qy	1678	AGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCT	1737
Db	1719	AGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCCCCT	1778
Qy	1738	GGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCT	1797
Db	1779	GGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCAGCCCT	1838
Qy	1798	GACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGG---AGGATGTG	1854
Db	1839	GACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGCAGGATGTG	1898
Qy	1855	CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCC	1914
Db	1899	CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTGCC	1958
Qy	1915	TGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTG	1974
Db	1959	TGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCGTG	2018
Qy	1975	GCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAG	2034
Db	2019	GCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCGAG	2078
Qy	2035	TACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAG	2094
Db	2079	TACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGCAG	2138
Qy	2095	CTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGAC	2154
Db	2139	CTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAAGGAC	2198
Qy	2155	AGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGTAAG	2214
Db	2199	AGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGTAAG	2258
Qy	2215	CTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTAC	2274
Db	2259	CTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGTAC	2318
Qy	2275	TTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAG	2334
Db	2319	TTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCAAG	2378
Qy	2335	CTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAAGCATCAACTTCAACATCACC	2394
Db	2379	CTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAAGCATCAACTTCAACATCACC	2438
Qy	2395	AAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTG	2454
Db	2439	AAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGCCCTG	2498

Qy 2455 GTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTTCGGCAGAAGATAATTTCCAGCCTG 2514  
 |||  
 Db 2499 GTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTTCGGCAGAAGATAATTTCCAGCCTG 2558  
 Qy 2515 GACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGAC 2574  
 |||  
 Db 2559 GACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCTGGAC 2618  
 Qy 2575 AGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGG 2634  
 |||  
 Db 2619 AGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCTGTGG 2678  
 Qy 2635 GAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTG 2694  
 |||  
 Db 2679 GAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGGACTG 2738  
 Qy 2695 GGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGAGGCCGGCCAG 2752  
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 Db 2739 GGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGAGGCCGGCCAG 2796

RESULT 4

US-10-643-795A-77

; Sequence 77, Application US/10643795A

; Publication No. US20040241703A1

; GENERAL INFORMATION:

; APPLICANT: FREDERIC J. DESAUVAGE

; APPLICANT: GRETCHEN FRANTZ

; APPLICANT: KENNETH J. HILLAN

; APPLICANT: PAUL POLAKIS

; APPLICANT: ANDREW POLSON

; APPLICANT: VICTORIA SMITH

; APPLICANT: SUSAN D. SPENCER

; APPLICANT: THOMAS D. WU

; APPLICANT: ZEMIN ZHANG

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND

; TITLE OF INVENTION: TREATMENT OF TUMOR

; FILE REFERENCE: P5026R1-US

; CURRENT APPLICATION NUMBER: US/10/643,795A

; CURRENT FILING DATE: 2003-08-19

; PRIOR APPLICATION NUMBER: US 60/404,809

; PRIOR FILING DATE: 2002-08-19

; PRIOR APPLICATION NUMBER: US 60/405,645

; PRIOR FILING DATE: 2002-08-21

; PRIOR APPLICATION NUMBER: US 60/413,192

; PRIOR FILING DATE: 2002-09-23

; PRIOR APPLICATION NUMBER: US 60/419,008

; PRIOR FILING DATE: 2002-10-15

; PRIOR APPLICATION NUMBER: US 60/426,847

; PRIOR FILING DATE: 2002-11-15

; PRIOR APPLICATION NUMBER: US 60/484,959

; PRIOR FILING DATE: 2003-07-02

; NUMBER OF SEQ ID NOS: 158

; SEQ ID NO 77

; LENGTH: 3561

; TYPE: DNA

US-10-643-795A-77

Matches 2537; Conservative 0; Mismatches 5; Indels 168; Gaps 1;

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Qy	823	CGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCT	882
Db	727	-----	726
Qy	883	TTCTGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGC	942
Db	727	-----GACGGC	732
Qy	943	AGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGC	1002
Db	733	AGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGC	792
Qy	1003	CGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTG	1062
Db	793	CGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTG	852
Qy	1063	GACACCCGCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTG	1122
Db	853	GACACCCGCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTG	912
Qy	1123	GCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCTC	1182
Db	913	GCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCTC	972
Qy	1183	ATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT	1242
Db	973	ATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT	1032
Qy	1243	CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTG	1302
Db	1033	CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTG	1092
Qy	1303	CTCACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCC	1362
Db	1093	CTCACCATCCAGCCGGACCTCAGCACCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCC	1152
Qy	1363	CGGCAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTG	1422
Db	1153	CGGCAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTG	1212
Qy	1423	GGTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTC	1482
Db	1213	GGTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTC	1272
Qy	1483	TCCCGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACC	1542
Db	1273	TCCCGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACC	1332
Qy	1543	TATGGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTC	1602
Db	1333	TATGGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTC	1392
Qy	1603	CTCATCCCCCAGATGCCATAACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCAC	1662
Db	1393	CTCATCCCCCAGATGCCATAACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCAC	1452

Qy	1663	AAGCCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTT	1722
Db	1453	AAGCCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTT	1512
Qy	1723	AGCTGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGT	1782
Db	1513	AGCTGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGT	1572
Qy	1783	GGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGC	1842
Db	1573	GGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGC	1632
Qy	1843	TGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTG	1902
Db	1633	TGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTG	1692
Qy	1903	GAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAG	1962
Db	1693	GAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAG	1752
Qy	1963	GCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGC	2022
Db	1753	GCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGC	1812
Qy	2023	ACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAG	2082
Db	1813	ACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAG	1872
Qy	2083	GAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTG	2142
Db	1873	GAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTG	1932
Qy	2143	CACTTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTG	2202
Db	1933	CACTTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTG	1992
Qy	2203	TGGAAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGC	2262
Db	1993	TGGAAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGC	2052
Qy	2263	ACGCAGCGGTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGAC	2322
Db	2053	ACGCAGCGGTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGAC	2112
Qy	2323	CTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTACGATCAAC	2382
Db	2113	CTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTACGATCAAC	2172
Qy	2383	TTCAACATCACCAAGGACACAAGGTTTGTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGG	2442
Db	2173	TTCAACATCACCAAGGACACAAGGTTTGTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGG	2232
Qy	2443	GTCCCAGCCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTTCGGCAGAAGATA	2502
Db	2233	GTCCCAGCCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTTCGGCAGAAGATA	2292

Qy 2503 ATTTCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAA 2562  
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 Db 2293 ATTTCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAA 2352  
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 Db 2353 CTCCACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATC 2412  
 Qy 2623 CTCAACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCA 2682  
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 Db 2413 CTCAACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCA 2472  
 Qy 2683 GTGGCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGCTGA 2742  
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 Db 2473 GTGGCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTGCGGAGGCTGAGTGCTGA 2532  
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RESULT 5

US-10-311-623-13

; Sequence 13, Application US/10311623  
 ; Publication No. US20040023244A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: INCYTE GENOMICS, INC.; GRIFFIN, Jennifer A.  
 ; APPLICANT: KALLICK, Deborah A.; TRIBOULEY, Catherine M.  
 ; APPLICANT: YUE, Henry; NGUYEN, Dannel B.  
 ; APPLICANT: TANG, Y. Tom; LAL, Preeti G.  
 ; APPLICANT: POLICKY, Jennifer L.; AZIMZAI, Yalda  
 ; APPLICANT: LU, Dyung Aina M.; GRAUL, Richard C.  
 ; APPLICANT: YAO, Monique G.; BURFORD, Neil  
 ; APPLICANT: HAFALIA, April J. A.; BAUGHN, Mariah R.  
 ; APPLICANT: BANDMAN, Olga; ARVIZU, Chandra S.  
 ; APPLICANT: YANG, Junming; XU, Yuming  
 ; APPLICANT: GANDHI, Ameena R.; WARREN, Bridget A.  
 ; APPLICANT: DING, Li; SANJANWALA, Madhusudan M.  
 ; APPLICANT: DUGGAN, Brendan M.; LU, Yan  
 ; TITLE OF INVENTION: RECEPTORS  
 ; FILE REFERENCE: PF-0793 USN  
 ; CURRENT APPLICATION NUMBER: US/10/311,623  
 ; CURRENT FILING DATE: 2002-12-17  
 ; PRIOR APPLICATION NUMBER: US 01/19942  
 ; PRIOR FILING DATE: 2001-06-21  
 ; PRIOR APPLICATION NUMBER: US 60/214,027  
 ; PRIOR FILING DATE: 2000-06-21  
 ; PRIOR APPLICATION NUMBER: US 60/228,045  
 ; PRIOR FILING DATE: 2000-08-25  
 ; PRIOR APPLICATION NUMBER: US 60/255,104  
 ; PRIOR FILING DATE: 2000-12-12  
 ; NUMBER OF SEQ ID NOS: 24  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO 13  
 ; LENGTH: 3580  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens



; FEATURE:  
; NAME/KEY: misc\_feature  
; OTHER INFORMATION: Incyte ID No. US20040023244A1 6052371CB1  
US-10-311-623-13

Query Match 85.6%; Score 2356; DB 17; Length 3580;  
Best Local Similarity 93.6%; Pred. No. 0;  
Matches 2537; Conservative 0; Mismatches 5; Indels 168; Gaps 1;

Qy	43	GCCATGGCCGTCCGGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGG	102
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Qy	103	CTCCGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAAC	162
Db	61	CTCCGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAAC	120
Qy	163	CCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAG	222
Db	121	CCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAG	180
Qy	223	CCAGTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGG	282
Db	181	CCAGTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGG	240
Qy	283	GAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTG	342
Db	241	GAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTG	300
Qy	343	CCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAGGTGTTTCGGGCTG	402
Db	301	CCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAGGTGTTTCGGGCTG	360
Qy	403	GAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAG	462
Db	361	GAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAG	420
Qy	463	GCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAG	522
Db	421	GCCTACATCCGCATAGCCTATTTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAG	480
Qy	523	GTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCC	582
Db	481	GTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCC	540
Qy	583	GAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATAC	642
Db	541	GAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATAC	600
Qy	643	ATCACGCGGGAGCACAGCCTGGTGGTGGCAGAGGCCCGCCTTGCTGACACGGCCAACTAC	702
Db	601	ATCACGCGGGAGCACAGCCTGGTGGTGGCAGAGGCCCGCCTTGCTGACACGGCCAACTAC	660
Qy	703	ACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTCATCGTC	762
Db	661	ACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCGCAGCGCCTCCGCTGCTGTCATCGTC	720

Qy	763	TACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGG	822
Db	721	TACGTG-----	726
Qy	823	CGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCT	882
Db	727	-----	726
Qy	883	TTCTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGC	942
Db	727	-----GACGGC	732
Qy	943	AGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGC	1002
Db	733	AGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGC	792
Qy	1003	CGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTG	1062
Db	793	CGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTG	852
Qy	1063	GACACCCGCAACTGTACCAAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTG	1122
Db	853	GACACCCGCAACTGTACCAAGTGACCTCTGTGTACACACTGCTTCTGGCCCTGAGGACGTG	912
Qy	1123	GCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTC	1182
Db	913	GCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTC	972
Qy	1183	ATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT	1242
Db	973	ATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATT	1032
Qy	1243	CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCATCTG	1302
Db	1033	CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCATCTG	1092
Qy	1303	CTCACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCC	1362
Db	1093	CTCACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCC	1152
Qy	1363	CGGCAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTG	1422
Db	1153	CGGCAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTG	1212
Qy	1423	GGTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTC	1482
Db	1213	GGTGGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTC	1272
Qy	1483	TCCCGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACC	1542
Db	1273	TCCCGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACC	1332
Qy	1543	TATGGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTC	1602
Db	1333	TATGGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTC	1392
Qy	1603	CTCATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCAC	1662

Db	1393	CTCATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCAC	1452
Qy	1663	AAGCCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTT	1722
Db	1453	AAGCCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTT	1512
Qy	1723	AGCTGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGT	1782
Db	1513	AGCTGTGGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGT	1572
Qy	1783	GGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGC	1842
Db	1573	GGGGAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGC	1632
Qy	1843	TGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTG	1902
Db	1633	TGGGAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTG	1692
Qy	1903	GAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAG	1962
Db	1693	GAGGCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAG	1752
Qy	1963	GCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGC	2022
Db	1753	GCCCTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGC	1812
Qy	2023	ACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAG	2082
Db	1813	ACCTCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAG	1872
Qy	2083	GAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTG	2142
Db	1873	GAGGTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTG	1932
Qy	2143	CACTTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTG	2202
Db	1933	CACTTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTG	1992
Qy	2203	TGGAAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGC	2262
Db	1993	TGGAAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGC	2052
Qy	2263	ACGCAGCGGTACTTGCCTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGAC	2322
Db	2053	ACGCAGCGGTACTTGCCTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGAC	2112
Qy	2323	CTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAAC	2382
Db	2113	CTGGCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAAC	2172
Qy	2383	TTCAACATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGG	2442
Db	2173	TTCAACATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGG	2232
Qy	2443	GTCCCAGCCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATA	2502

Db 2233 GTCCCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATA 2292  
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 Db 2533 GGCCGGCCAG 2542

RESULT 6

US-09-933-261-1

; Sequence 1, Application US/09933261

; Publication No. US20030040046A1

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; .. OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/933,261

; FILING DATE: 20-Aug-2001

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/808,982

; FILING DATE: <Unknown>

; ATTORNEY/AGENT INFORMATION:

; NAME: OSMAN, RICHARD A

; REGISTRATION NUMBER: 36,627

```

;          REFERENCE/DOCKET NUMBER: UC96-217
;          TELECOMMUNICATION INFORMATION:
;          TELEPHONE: (415) 343-4341
;          TELEFAX: (415) 343-4342
;          INFORMATION FOR SEQ ID NO: 1:
;          SEQUENCE CHARACTERISTICS:
;              LENGTH: 3014 base pairs
;              TYPE: nucleic acid
;              STRANDEDNESS: double
;              TOPOLOGY: linear
;          MOLECULE TYPE: cDNA
;          SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-933-261-1

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Query Match          82.1%; Score 2259; DB 10; Length 3014;
Best Local Similarity 89.7%; Pred. No. 0;
Matches 2427; Conservative 0; Mismatches 280; Indels 0; Gaps 0;

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Qy     106 CGCGGCTCGGGTGCCAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG 165
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Db     61 CGTGGTTCGGGTGCCCAGCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAACCCC 120

Qy     166 GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA 225
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Db     181 GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA 240

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Db     241 TGGGTCCGCCAGGTGCATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA 300

Qy     346 ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGCGAGAAGGTGTTCTGGGCTGGAG 405
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Qy 826 GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC 885  
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 Db 781 GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCTTTC 840

Qy 886 TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCAGTAGACGGCAGC 945  
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 Db 841 TGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCAGTGGATGGGAGC 900

Qy 946 TGGAGCCCGTGGAGCAAGTGGTGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT 1005  
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 Db 901 TGGAGTTCGTGGAGTAAGTGGTCAAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC 960

Qy 1006 GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC 1065  
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 Db 961 GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTCGGGGTGCTGACCTGGAC 1020

Qy 1066 ACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC 1125  
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 Db 1021 ACCCGCAACTGTACCACTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT 1080

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Qy 1246 ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC 1305  
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 Db 1201 ACCTCGGGCTTCCAGCCTGTGAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC 1260

Qy 1306 ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG 1365  
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Qy 1366 CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCATGGGCACCTGCTCAGCCCCCTGGGT 1425  
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 Db 1321 CAGGATGGACCCAGCCCCAAGTTCAGCTCTCTAATGGTCACCTGCTCAGCCCACTGGGG 1380

Qy 1426 GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC 1485  
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 Db 1381 AGTGGCCGCCATACGTTGCACCACAGCTCACCACCTCTGAGGCTGAGGACTTCGTCTCC 1440

Qy	1486	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCGAGGCACACAGCAACATGACCTAT	1545
Db	1441	CGCCTCTCCACCCAAAATACTTTTCGTTCCCTGCCCGCGGCACACAGCAACATGGCCTAC	1500
Qy	1546	GGGACCTTCAACTTCCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1605
Db	1501	GGGACCTTCAACTTCCCTCGGGGGCCGGCTGATGATCCCTAATACAGGGATCAGCCTCCTC	1560
Qy	1606	ATCCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1665
Db	1561	ATACCCCGGATGCCATCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1666	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCCTGCTGAGTCCCATCGTTAGC	1725
Db	1621	CCAGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1726	TGTGGACCCCTGGCGTCTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1785
Db	1681	TGTGGGCCCCCAGGAGTCTGCTCACCCGGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1786	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1845
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Qy	1846	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1905
Db	1801	GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTTCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1906	GCCAGTGCTGCTACGTCTTACCGAGCAGCTGGGCGCGCTTTGCCCTGGTGGGAGAGGCC	1965
Db	1861	GCCGGGGCCTGCTATGTCTTACGGAGCAGCTGGGCGCGCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1966	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	2025
Db	1921	CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCTCCCCTGGCCTGTACG	1980
Qy	2026	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2085
Db	1981	TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040
Qy	2086	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTTGCAC	2145
Db	2041	GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCTTGCAC	2100
Qy	2146	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGG	2205
Db	2101	TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGACGTGCCAGCTCCCTGTGG	2160
Qy	2206	AAGAGTAAGCTCCTTGTGCTAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCAG	2265
Db	2161	AAGAGCAAGCTACTTGTGCTAGCTACCAGGAGATCCCCCTTTTACCACATCTGGAACGGCACC	2220
Qy	2266	CAGCGGTACTTGCACCTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTG	2325
Db	2221	CAGCAGTATCTGCACTGCACCTTACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG	2280
Qy	2326	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2385

Db	2281	GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC	2340
Qy	2386	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGGTC	2445
Db	2341	AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGGTC	2400
Qy	2446	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT	2505
Db	2401	CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAGATCATC	2460
Qy	2506	TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAAACTC	2565
Db	2461	GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCCAGAAACTT	2520
Qy	2566	CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC	2625
Db	2521	CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC	2580
Qy	2626	AACCTGTGGGAGGCGGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG	2685
Db	2581	AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG	2640
Qy	2686	GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGAGGC	2745
Db	2641	GCCGGACTGGGCCAACCAGATGCTGGCCTCTTCACGGTGTCTGGAGGCCGAGTGTTGAGAC	2700
Qy	2746	CGGCCAG	2752
Db	2701	CAGCCAG	2707

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; CURRENT APPLICATION DATA:
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; APPLICATION NUMBER: US/10/256,702
; FILING DATE: 27-Sep-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/933,261
; FILING DATE: 20-Aug-2001
; APPLICATION NUMBER: 08/808,982
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: OSMAN, RICHARD A
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: UC96-217
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 343-4341
; TELEFAX: (415) 343-4342
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3014 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-256-702-1

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Query Match          82.1%; Score 2259; DB 14; Length 3014;
Best Local Similarity 89.7%; Pred. No. 0;
Matches 2427; Conservative 0; Mismatches 280; Indels 0; Gaps 0;

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Qy      46 ATGGCCGTCGCGCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC 105
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Db      1 ATGGCCGTCGCGCCCGGCCTGTGGCCAGTGCTCCTGGGCATAGTCCTCGCCGCCTGGCTT 60

Qy     106 CGCGGCTCGGGTGCCCGAGCAGAGTGCCACCGTGGCCAACCCAGTGCCTGGTGCCAACCCG 165
        || || ||||||||||||||||||||||||||||||||||||||||||||
Db      61 CGTGGTTCGGGTGCCCGAGCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAACCCC 120

Qy     166 GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA 225
        |||||||| |||||||||||||||||| |||| |||| |||||||| ||||||||
Db     121 GACCTGCTGCCCCACTTCCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG 180

Qy     226 GTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG 285
        ||| || | |||||||||| |||| |||| |||||||||||||||||| ||||
Db     181 GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA 240

Qy     286 TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC 345
        ||||| |||||||| || ||||| || || |||||||| ||| | ||||| || |||
Db     241 TGGGTCCGCCAGGTGCATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA 300

Qy     346 ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTTCGGGCTGGAG 405
        |||||||||||||| || || || || |||||||||| |||| |||| ||||||||
Db     301 ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTTTGGGCTGGAG 360

Qy     406 GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC 465
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Db     361 GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC 420

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Qy	466	TACATCCGCATAGCCAGATTGCGCAAGAAGCTTCGAGCAGGAGCCGCTGGCCAAAGGAGGTG	525
Db	421	TACATCCGGATTGCGCTATTTGCGCAAGAAGCTTTGAGCAGGAGCCACTGGCCAAGGAAGTG	480
Qy	526	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGGAGGGCATCCCTCCAGCCGAG	585
Db	481	TCACTGGAGCAAGGCATTGTACTACCTTGTGCGCCCCCAGAAGGAATCCCCCAGCTGAG	540
Qy	586	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCCAATGTATACATC	645
Db	541	GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC	600
Qy	646	ACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCCTTGCTGACACGGCCAACTACACC	705
Db	601	ACGCGGGAGCACAGCCTAGTCTGTCGTGAGGCCCGCCTGGCCGACACGGCCAACTACACC	660
Qy	706	TGCGTGGCCAAGAATCATCGTGGCACGTGCGCCGACGCGCTCCGCTGCTGTCATCGTCTAC	765
Db	661	TGTGTGGCCAAGAATCATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTCATTGTTTAT	720
Qy	766	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	825
Db	721	GTGAACGGTGGGTGGTTCGACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780
Qy	826	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	885
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC	840
Qy	886	TGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCACCCTGTGCCCAGTAGACGGCAGC	945
Db	841	TGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCCAGTGGATGGGAGC	900
Qy	946	TGGAGCCCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	1005
Db	901	TGGAGTTCGTGGAGTAAGTGGTTCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960
Qy	1006	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGGCACTGACCTGGAC	1065
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTGCGGGTGTGACCTGGAC	1020
Qy	1066	ACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1125
Db	1021	ACCCGCAACTGTACCAGTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT	1080
Qy	1126	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGTGCTCCTCATC	1185
Db	1081	CTCTACATCGGCCTTGTGCTGTGGCTGTGTGCCTCTTCTTGCTGTTGCTGGCCCTTGA	1140
Qy	1186	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1245
Db	1141	CTCATTTACTGTGCGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200
Qy	1246	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCAGCAAAGCAGACAACCCCCATCTGCTC	1305
Db	1201	ACCTCGGGCTTCCAGCCTGTTCAGCATCAAGCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1306	ACCATCCAGCCGGACCTCAGCACACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1365

Db	1261	 ACCATCCAGCCAGACCTCAGCACCACCACTACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1366	CAGGATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1425
Db	1321	 CAGGATGGACCCAGCCCCAAGTTCCAGCTCTCTAATGGTCACCTGCTCAGCCCCACTGGGG	1380
Qy	1426	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCC	1485
Db	1381	 AGTGGCCGCCATACGTTGCACCACAGCTCACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1486	CGCCTCTCCACCCAGAATACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1545
Db	1441	 CGCCTCTCCACCCAAAATACTTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC	1500
Qy	1546	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1605
Db	1501	 GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1606	ATCCCCCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1665
Db	1561	 ATACCCCGGATGCCATCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1666	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1725
Db	1621	 CCAGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1726	TGTGGACCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1785
Db	1681	 TGTGGGCCCCCAGGAGTCCTGCTCACCCGGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1786	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1845
Db	1741	 GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1846	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1905
Db	1801	 GAGGATGTGCTGCACCTTGGTGAGGAGTACCTTCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1906	GCCAGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCC	1965
Db	1861	 GCCGGGGCCTGCTATGTCTTCACGGAGCAGCTGGGCCGCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1966	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGTGGCCTGCACC	2025
Db	1921	 CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCCTCCCGTGGCCTGTACG	1980
Qy	2026	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2085
Db	1981	 TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGACGCTCTCAAGGAG	2040
Qy	2086	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2145
Db	2041	 GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCTGCAC	2100
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; SEQ ID NO 15  
; LENGTH: 2697  
; TYPE: DNA  
; ORGANISM: Rattus sp.  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2697)  
US-10-240-154-15

Query Match 81.8%; Score 2252.2; DB 16; Length 2697;  
Best Local Similarity 89.7%; Pred. No. 0;  
Matches 2419; Conservative 0; Mismatches 278; Indels 0; Gaps 0;

Qy	46	ATGGCCGTCCGGCCCCGGCCTGTGGCCAGCGCTCCTGGGCATAGTCCTCGCCGCTTGGCTC	105
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Qy	106	CGCGGCTCGGGTGCCAGAGTGCCACCGTGGCCAACCCAGTGCCGTGGTGCCAAACCCG	165
Db	61	CGTGGTTCGGGTGCCAGAGTGCCACGGTGGCCAATCCAGTGCCCGGTGCCAAACCC	120
Qy	166	GACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATGTGTACATCGTCAAGAACAAGCCA	225
Db	121	GACCTGCTGCCCCACTTCCTGGTAGAGCCTGAGGACGTGTACATTGTCAAGAACAAGCCG	180
Qy	226	GTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGATCTTCTTCAAGTGCAACGGGGAG	285
Db	181	GTGTTGTTGGTGTGCAAGGCTGTGCCTGCCACCCAGATCTTCTTCAAGTGCAATGGGGAA	240
Qy	286	TGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCACAGACGGGAGCAGTGGGCTGCCC	345
Db	241	TGGGTCCGCCAGGTGATCACGTAATTGAACGCAGCACCGACAGCAGCAGCGGATTGCCA	300
Qy	346	ACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGGTGAGAAAGGTGTTGGGGCTGGAG	405
Db	301	ACCATGGAGGTCCGTATCAACGTATCGAGGCAGCAGGTAGAGAAAGTGTTTGGGCTGGAG	360
Qy	406	GAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGGGCACCACCAAGAGTCAGAAGGCC	465
Db	361	GAATACTGGTGCCAGTGTGTGGCATGGAGCTCCTCGGGTACCACCAAAAGTCAGAAGGCC	420
Qy	466	TACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGCAGGAGCCGCTGGCCAAGGAGGTG	525
Db	421	TACATCCGGATTGCCATATTTGCGCAAGAACTTTGAGCAGGAGCCACTGGCCAAGGAAGTG	480
Qy	526	TCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCACCGAGGGGCATCCCTCCAGCCGAG	585
Db	481	TCACTGGAGCAAGGCATTGTACTACCTTGTCGCCCCCAGAAGGAATCCCCCAGCTGAG	540
Qy	586	GTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGTCCCTGGACCCCAATGTATACATC	645
Db	541	GTGGAGTGGCTTCGAAATGAGGACCTCGTGGACCCCTCCCTCGATCCCAATGTGTACATC	600
Qy	646	ACGCGGGAGCACAGCCTGGTGGTGGCAGGCCCCGCTTGCTGACACGGCCAACCTACACC	705
Db	601	ACGCGGGAGCACAGCCTAGTCGTGCGTCAGGCCCCGCTGGCCGACACGGCCAACCTACACC	660

Qy	706	TGCGTGGCCAAAGAACATCGTGGGCACGTGCGCCGACGCGCCTCCGCTGCTGTGCATCGTCTAC	765
Db	661	TGTGTGGCCAAGAACATCGTAGCCCGTCGCCGAAGCACCTCTGCAGCGGTCATTGTTTAT	720
Qy	766	GTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGC	825
Db	721	GTGAACGGTGGGTGGTTCGACGTGGACTGAGTGGTCCGTCTGCAGCGCCAGCTGTGGGCGT	780
Qy	826	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCGCCTCTCAACGGGGGCGCTTTC	885
Db	781	GGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGGCACCTCTCAACGGGGGCGCCTTC	840
Qy	886	TGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCACCCCTGTGCCCAGTAGACGGCAGC	945
Db	841	TGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCACTCTGTGCCCAGTGGATGGGAGC	900
Qy	946	TGGAGCCCGTGGAGCAAGTGGTTCGGCCTGTGGGCTGGACTGCACCCACTGGCGGAGCCGT	1005
Db	901	TGGAGTTCGTGGAGTAAGTGGTTCAGCCTGTGGGCTTGACTGCACCCACTGGCGGAGCCGC	960
Qy	1006	GAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGGAGTGCCAGGGCACTGACCTGGAC	1065
Db	961	GAGTGCTCTGACCCAGCACCCCGCAATGGAGGTGAGGAGTGTCGGGGTGCTGACCTGGAC	1020
Qy	1066	ACCCGCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCC	1125
Db	1021	ACCCGCAACTGTACCACTGACCTCTGCCTGCACACCGCTTCTTGCCCCGAGGACGTGGCT	1080
Qy	1126	CTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCTGCTGCTGTGCTCTCATC	1185
Db	1081	CTCTACATCGGCCTTGTGCTGTGGCTGTGTGCCTCTTCTTGCTGTTGCTGGCCCTTGA	1140
Qy	1186	CTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTC	1245
Db	1141	CTCATTTACTGTGCAAGAAGGAAGGGCTGGACTCCGATGTGGCCGACTCGTCCATCCTC	1200
Qy	1246	ACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCAGCAAAGCAGACAACCCCCATCTGCTC	1305
Db	1201	ACCTCGGGCTTCCAGCCTGTGAGCATCAAGCCCAGCAAAGCAGACAACCCCCACCTGCTC	1260
Qy	1306	ACCATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGG	1365
Db	1261	ACCATCCAGCCGAGACCTCAGCACCACCACCTACCACCTACCAGGGCAGTCTATGTTTCGAGG	1320
Qy	1366	CAGGATGGGCCCAGCCCCAAGTTCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGT	1425
Db	1321	CAGGATGGACCCAGCCCCAAGTTCAGCTCTCTAATGGTCACCTGCTCAGCCCACTGGGG	1380
Qy	1426	GGCGGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTTCGTCTCC	1485
Db	1381	AGTGGCCGCCATACGTGACACCACAGCTCACCCACCTCTGAGGCTGAGGACTTCGTCTCC	1440
Qy	1486	CGCCTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTAT	1545
Db	1441	CGCCTCTCCACCCAAAACACTTTCGTTCCCTGCCCCGCGGCACCAGCAACATGGCCTAC	1500
Qy	1546	GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTC	1605

Db	1501	 GGGACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACGGGGATCAGCCTCCTC	1560
Qy	1606	ATCCCCCAGATGCCATACCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAG	1665
Db	1561	 ATACCCCGGATGCCATCCCCGAGGAAAGATCTACGAGATCTACCTCACACTGCACAAG	1620
Qy	1666	CCGGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGC	1725
Db	1621	 CCAGAAGACGTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCAGTCGTTAGC	1680
Qy	1726	TGTGGACCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGG	1785
Db	1681	 TGTGGGCCCCCAGGAGTCCTGCTCACCCGGCCAGTCATCCTTGCAATGGACCACTGTGGA	1740
Qy	1786	GAGCCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGG	1845
Db	1741	 GAGCCCAGCCCTGACAGCTGGAGTCTGCGCCTCAAAAAGCAGTCCTGCGAGGGCAGTTGG	1800
Qy	1846	GAGGATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAG	1905
Db	1801	 GAGGATGTGCTGCACCTTGGTGAGGAGTCACCTTCCACCTCTACTACTGCCAGCTGGAG	1860
Qy	1906	GCCAGTGCCTGCTACGTCTTACCGAGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCC	1965
Db	1861	 GCCGGGGCCTGCTATGTCTTACGGAGCAGCTGGGCGCCTTTGCCCTGGTAGGAGAGGCC	1920
Qy	1966	CTCAGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACC	2025
Db	1921	 CTCAGCGTGGCTGCCACCAAGCGCCTCAGGCTCCTTCTGTTTGCTCCCGTGGCCTGTACG	1980
Qy	2026	TCCCTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAG	2085
Db	1981	 TCCCTTGAGTACAACATCCGAGTGTACTGCCTACACGACACCCACGAGCTCTCAAGGAG	2040
Qy	2086	GTGGTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCAC	2145
Db	2041	 GTGGTGCAGCTGGAGAAGCAGCTAGGTGGACAGCTGATCCAGGAGCCTCGCGTCTGCAC	2100
Qy	2146	TTCAAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGG	2205
Db	2101	 TTCAAAGACAGTTACCACAACCTACGTCTCTCCATCCACGAGTGCCAGCTCCCTGTGG	2160
Qy	2206	AAGAGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACG	2265
Db	2161	 AAGAGCAAGCTACTTGTGAGCTACCAGGAGATCCCTTTTACCACATCTGGAACGGCACC	2220
Qy	2266	CAGCGGTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCAGCACTAGTGACCTG	2325
Db	2221	 CAGCAGTATCTGCACTGCACCTTACCCTGGAGCGCATCAACGCCAGCACCAGCGACCTG	2280
Qy	2326	GCCTGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTC	2385
Db	2281	 GCCTGCAAGGTGTGGGTGTGGCAGGTGGAGGGAGATGGGCAGAGCTTCAACATCAACTTC	2340
Qy	2386	AACATCACCAAGGACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTC	2445

Db 2341 AACATCACTAAGGACACAAGGTTTGCTGAATTGTTGGCTCTGGAGAGTGAAGGGGGGGTC 2400

Qy 2446 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATT 2505  
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Db 2401 CCAGCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAAAAGATCATC 2460

Qy 2506 TCCAGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTC 2565  
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Db 2461 GCCAGTCTGGACCCACCCTGCAGCCGGGGCGCCGACTGGAGAACTCTAGCCCAGAACTT 2520

Qy 2566 CACCTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTC 2625  
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Db 2521 CACCTGGACAGCCATCTTAGCTTCTTTGCCTCCAAGCCCAGCCCTACAGCCATGATCCTC 2580

Qy 2626 AACCTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTG 2685  
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Db 2581 AACCTATGGGAGGCACGGCACTTCCCCAACGGCAACCTCGGCCAGCTGGCAGCAGCTGTG 2640

Qy 2686 GCTGGACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2742  
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Db 2641 GCCGGACTGGGCCAACCCAGATGCTGGCCTCTTCACGGTGTCTGGAGGCCGAGTGTTGA 2697

RESULT 9

US-09-933-261-2

; Sequence 2, Application US/09933261

; Publication No. US20030040046A1

; GENERAL INFORMATION:

; APPLICANT: Tessier-Lavigne, Marc

; Leonardo, E. David

; Hink, Lindsay

; Masu, Masayuki

; Kazuko, Keino-Masu

; TITLE OF INVENTION: Netrin Receptors

; NUMBER OF SEQUENCES: 8

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 268 BUSH STREET, SUITE 3200

; CITY: SAN FRANCISCO

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94104

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING..SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/933,261

; FILING DATE: 20-Aug-2001

; CLASSIFICATION: <Unknown>

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/808,982

; FILING DATE: <Unknown>

; ATTORNEY/AGENT INFORMATION:

; NAME: OSMAN, RICHARD A

; REGISTRATION NUMBER: 36,627



```

;          REFERENCE/DOCKET NUMBER: UC96-217
;          TELECOMMUNICATION INFORMATION:
;          TELEPHONE: (415) 343-4341
;          TELEFAX: (415) 343-4342
;          INFORMATION FOR SEQ ID NO: 2:
;          SEQUENCE CHARACTERISTICS:
;              LENGTH: 1787 base pairs
;              TYPE: nucleic acid
;              STRANDEDNESS: double
;              TOPOLOGY: linear
;          MOLECULE TYPE: cDNA
;          SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-933-261-2

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Query Match          56.8%;  Score 1562.4;  DB 10;  Length 1787;
Best Local Similarity 98.5%;  Pred. No. 0;
Matches 1661;  Conservative 0;  Mismatches 16;  Indels 9;  Gaps 8;

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Qy      1070 GCAACTGTACCAAGTACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1129
          |||
Db      1    GCAACTGTACCAAGTACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1130 ATGTGGGCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 1189
          |||
Db      60   ATGTGGGCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCTCG 119

Qy      1190 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1249
          |||
Db      120   TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy      1250 CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 1308
          |||
Db      180   CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 239

Qy      1309 ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 1368
          |||
Db      240   ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 299

Qy      1369 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 1428
          |||
Db      300   GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 359

Qy      1429 GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 1488
          |||
Db      360   GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 419

Qy      1489 CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 1548
          |||
Db      420   CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 479

Qy      1549 ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC 1608
          |||
Db      480   ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC 539

Qy      1609 CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG 1668
          |||
Db      540   CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG 599

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Qy	1669	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1728
Db	600	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1729	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1788
Db	660	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1789	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG	1848
Db	720	CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG	778
Qy	1849	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1908
Db	779	GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1909	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1968
Db	838	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1969	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	2028
Db	898	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957
Qy	2029	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2088
Db	958	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2089	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	2148
Db	1018	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC-	1076
Qy	2149	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAG	2208
Db	1077	AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCAGCTCCCTGTGGAAG	1134
Qy	2209	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	2268
Db	1135	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	1194
Qy	2269	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	2328
Db	1195	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	1254
Qy	2329	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	2388
Db	1255	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	1314
Qy	2389	ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	2448
Db	1315	ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	1374
Qy	2449	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTGGGCAGAAGATAATTTCC	2508
Db	1375	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTGGGCAGAAGATAATTTCC	1434



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; REFERENCE/DOCKET NUMBER: UC96-217
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 343-4341
; TELEFAX: (415) 343-4342
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1787 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-10-256-702-2

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Query Match          56.8%; Score 1562.4; DB 14; Length 1787;
Best Local Similarity 98.5%; Pred. No. 0;
Matches 1661; Conservative 0; Mismatches 16; Indels 9; Gaps 8;

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Qy      1070 GCAACTGTACCACTGACCTCTGTGTACACAGTGCTTCTGGCCCTGAGGACGTGGCCCTCT 1129
          |||
Db       1   GCAACTGTACCACTGACCTCTG-GTACACACTGCTTCTGGCCCTGAGGACGTGGCCCTCT 59

Qy      1130 ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCG 1189
          |||
Db       60  ATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGGTCCTGCTGCTGCTTGTCTCATCCTCG 119

Qy      1190 TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 1249
          |||
Db      120  TTTATTGCCGGAAGAAGGAGGGGCTGGACTCAGATGTGGCTGACTCGTCCATTCTCACCT 179

Qy      1250 CAGGCTTCCAGCCCGTCAGCATC-AAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 1308
          |||
Db      180  CAGGCTTCCAGCCCGTCAGCATCTAAGCCCAGCAAAGCAGACAACCCCCATCTGCTCACC 239

Qy      1309 ATCCAGCCGGACCTCAGCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 1368
          |||
Db      240  ATCCAGCCGGACCTCAGCACCACCACCACCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAG 299

Qy      1369 GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 1428
          |||
Db      300  GATGGGCCCAGCCCCAAGTTCCAGCTCACCAATGGGCACCTGCTCAGCCCCCTGGGTGGC 359

Qy      1429 GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 1488
          |||
Db      360  GGCCGCCACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGC 419

Qy      1489 CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 1548
          |||
Db      420  CTCTCCACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGG 479

Qy      1549 ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATC 1608
          |||
Db      480  ACCTTCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATC 539

Qy      1609 CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG 1668
          |||
Db      540  CCCCCAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCG 599

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Qy	1669	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	1728
Db	600	GAAGACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGT	659
Qy	1729	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	1788
Db	660	GGACCCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAG	719
Qy	1789	CCCAGCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAG	1848
Db	720	CCCAGCCCTGACAGCTGGAGCCTGGCCCTCAAAAAGCAGTCGTGCGAGGG-AGCTGGGAG	778
Qy	1849	GATGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	1908
Db	779	GATGT-CTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCC	837
Qy	1909	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	1968
Db	838	AGTGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTC	897
Qy	1969	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	2028
Db	898	AGCGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCC	957
Qy	2029	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	2088
Db	958	CTCGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTG	1017
Qy	2089	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC	2148
Db	1018	GTGCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTC-	1076
Qy	2149	AAGGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAG	2208
Db	1077	AAGGACAGTTACCACAACCT--GCCCTATCATCCACGATGTGCCCAGCTCCCTGTGGAAG	1134
Qy	2209	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	2268
Db	1135	AGTAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAG	1194
Qy	2269	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	2328
Db	1195	CGGTACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCC	1254
Qy	2329	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	2388
Db	1255	TGCAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAAC	1314
Qy	2389	ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	2448
Db	1315	ATCACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCA	1374
Qy	2449	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCC	2508
Db	1375	GCCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCC	1434

Qy	2509	AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	2568
Db	1435	AGCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCAC	1494
Qy	2569	CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	2628
Db	1495	CTGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAAC	1554
Qy	2629	CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	2688
Db	1555	CTGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT	1614
Qy	2689	GGACTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGAGGCC	2746
Db	1615	GGGACTGGCCAGCAGGACGGTGGCTTCTTTCACAGTGTTTCGGAGGCTGAGTGCTGAGGCC	1674
Qy	2747	GGCCAG	2752
Db	1675	GGCCAG	1680

RESULT 11

US-10-296-115-365

; Sequence 365, Application US/10296115

; Publication No. US20040053248A1

; GENERAL INFORMATION:

; APPLICANT: Hyseq Inc

; TITLE OF INVENTION: No. US20040053248A1el Nucleic Acids and Polypeptides

; FILE REFERENCE: 784PCT

; CURRENT APPLICATION NUMBER: US/10/296,115

; CURRENT FILING DATE: 2002-11-18

; PRIOR APPLICATION NUMBER: US09/488,725

; PRIOR FILING DATE: 2000-01-21

; PRIOR APPLICATION NUMBER: US09/552,317

; PRIOR FILING DATE: 2000-04-25

; NUMBER OF SEQ ID NOS: 1478

; SEQ ID NO 365

; LENGTH: 1321

; TYPE: DNA

; ORGANISM: Homo sapiens

US-10-296-115-365

Query Match 43.8%; Score 1206.6; DB 17; Length 1321;  
 Best Local Similarity 98.0%; Pred. No. 1.2e-299;  
 Matches 1295; Conservative 0; Mismatches 19; Indels 7; Gaps 7;

Qy	1435	CACACACTGCACCACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCC	1494
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Qy	1495	ACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTC	1554
Db	61	ACCCAGAACTACTTCCGCTCCCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCTTC	120
Qy	1555	AACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCCA	1614
Db	121	AACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGAATCAGCCTCCTCATCCCCCA	180

Qy	1615	GATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGAC	1674
Db	181	GATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAGAC	240
Qy	1675	GTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCC	1734
Db	241	GTGAGGTTGCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGACCC	300
Qy	1735	CCT-GGCGTCCTGCTCACCCGGCCAGTCATCCT-GGCTATGGACCACTGT-GGGGAGCCC	1791
Db	301	CCTGGGCGTCCTGCTTACCCGGCCAGTCATCCTGGGGTATGGACCACTGTGGGGGAGCCC	360
Qy	1792	AGCCCTGACAGCT-GGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGA	1850
Db	361	AGCCCTGACAGCTGGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGA	420
Qy	1851	TGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAG	1910
Db	421	TGTGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAG	480
Qy	1911	TGCCTGCTACGTCTTCACCGAGCAGCTGGGCCGCTTTGCCCTGGTGGGAGAGGCCCTCAG	1970
Db	481	TGCCTGCTACGTCTTCACCGAGCAGCTGAGCCGCTATGCCCTGGTGGGAGAGGCCCTCAG	540
Qy	1971	CGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCT	2030
Db	541	CGTGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCT	600
Qy	2031	CGAGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGT	2090
Db	601	CGAGTACAACATACTGGTCTACTGCCTGCATGACACTCACGATGCACTCAACGTAGTGGT	660
Qy	2091	GCAGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCCTGCACTTCAA	2150
Db	661	GCAGCTGGAGAAGCAGCTGCAGGGACAGCTGATCCAGGAGCCACTGGTACTGCACTTCAA	720
Qy	2151	GGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAG	2210
Db	721	GGACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAG	780
Qy	2211	TAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCG	2270
Db	781	TAAGCTCCTTGTGAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCG	840
Qy	2271	GTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTG	2330
Db	841	GTACTTGCACTGCACCTTACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTG	900
Qy	2331	CAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACAT	2390
Db	901	CAAGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACAT	960
Qy	2391	CACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGC	2450
Db	961	CACCAAGGACACAAGGTTTGTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAGC	1020

Qy 2451 CCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTTCGGCAGAAGATAATTTCCAG 2510  
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 Db 1021 CCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTTCGGCAGAAGATAATTTCCAG 1080  
 Qy 2511 CCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCT 2570  
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 Db 1081 CCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACCT 1140  
 Qy 2571 GGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCT 2630  
 |||  
 Db 1141 GGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACCT 1200  
 Qy 2631 GTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCT-G 2689  
 |||  
 Db 1201 GTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTGG 1260  
 Qy 2690 GACTGGGCCAGCCAGACGCTGGCCTC-TTCACAGTG-TCGGAGGCTGAGTGCTGAGGCCG 2747  
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 Db 1261 GACTGGGCCAGCAGGACGGTGGCTTCTTTACAGTGTTTCGGAGGCTGAGTGCTGAGGCCG 1320  
 Qy 2748 G 2748  
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 Db 1321 G 1321

RESULT 12

US-10-087-684-1

; Sequence 1, Application US/10087684

; Publication No. US20040029116A1

; GENERAL INFORMATION:

; APPLICANT: Edinger, Shlomit R.  
 ; APPLICANT: MacDougall, John R.  
 ; APPLICANT: Millet, Isabelle  
 ; APPLICANT: Ellerman, Karen  
 ; APPLICANT: Stone, David J.  
 ; APPLICANT: Grosse, William M.  
 ; APPLICANT: Lepley, Denise M.  
 ; APPLICANT: Rieger, Daniel K.  
 ; APPLICANT: Burgess, Cathereine E.  
 ; APPLICANT: Casman, Stacie, J.  
 ; APPLICANT: Spytek, Kimberly A.  
 ; APPLICANT: Boldog, Ferenc L.  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Padigaru, Muralidhara  
 ; APPLICANT: Mishra, Vishnu  
 ; APPLICANT: Shenoy, Suresh G. ...  
 ; APPLICANT: Rastelli, Luca  
 ; APPLICANT: Tchernev, Velizar T.  
 ; APPLICANT: Vernet, Corine A.M.  
 ; APPLICANT: Zerhusen, Bryan D.  
 ; APPLICANT: Malyankar, Uriel M.  
 ; APPLICANT: Guo, Xiaojia  
 ; APPLICANT: Miller, Charles E.  
 ; APPLICANT: Gangolli, Esha A.

; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME

; FILE REFERENCE: 21402-214 CIP

; CURRENT APPLICATION NUMBER: US/10/087,684



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; CURRENT FILING DATE: 2003-03-10
; PRIOR APPLICATION NUMBER: 60/253,834
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: 60/250,926
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/264,180
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/274,194
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/313,656
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/327,456
; PRIOR FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 220
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 1
; LENGTH: 2860
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (59)..(2857)
US-10-087-684-1

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Query Match          34.0%; Score 936.2; DB 17; Length 2860;
Best Local Similarity 61.7%; Pred. No. 3.6e-230;
Matches 1662; Conservative 0; Mismatches 938; Indels 93; Gaps 7;

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Qy      143 ACCCAGTGCCTGGTGCCAAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCCGAGGATG 202
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Db      168 ACTCCTTCCCGTCAGCGCCAGCAGAGCCGCTGCCCTACTTCCTGCAGGAGCCACAGGACG 227

Qy      203 TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGA 262
      |||| | | |||| | | | | | | | | | | | | | | | |
Db      228 CCTACATTGTGAAGAACAAGCCTGTGGAGCTCCGCTGCCGCGCCTTCCCCGCCACACAGA 287

Qy      263 TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA 322
      || | |||| | | | | | | | | | | | | | | | | | |
Db      288 TCTACTTCAAGTGCAACGGCGAGTGGGTGAGCCAGAACGACCACGTACACAGGAAGGCC 347

Qy      323 CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG 382
      || | | || | | | | | | | | | | | | | | | | |
Db      348 TGGATGAGGCCACCGGTCTGCGGGTGCGCGAGGTGCAGATCGAGGTGTCGCGGCAGCAGG 407

Qy      383 TCGAGAAGGTGTTGCGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG 442
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Db      408 TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGGCCTGGAGCTCCGCGG 467

Qy      443 GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC 502
      |||| | | | | | | | | | | | | | | | | | | | |
Db      468 GCACCACCAAGAGTCGCCGAGCCTACGTCCGCATCGCCTACCTGCGCAAGAACTTCGATC 527

Qy      503 AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC 562
      |||| | | | | | | | | | | | | | | | | | | | |
Db      528 AGGAGCCTCTGGGCAAGGAGGTGCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCCG 587

Qy      563 CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT 622

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Db	588	CGGAGGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAATGAGGATGTCATCGACCCCA	647
Qy	623	CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCC	682
Db	648	CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC	707
Qy	683	TTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAACATCGTGGCACGTCGCCGCAGCG	742
Db	708	TGTCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAACGCCGGAGCA	767
Qy	743	CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCG	802
Db	768	CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC	827
Qy	803	TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	862
Db	828	CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGCACCCGGACCTGCACCAACCCCG	887
Qy	863	CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAATGTCCAGAAAACAGCCTGCGCCA	922
Db	888	CTCCACTCAACGGAGGGGCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA	947
Qy	923	CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCGGCCTGTGGGCTGG	982
Db	948	CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCAGCCTGCAGCACTG	1007
Qy	983	ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG	1042
Db	1008	AGTGTGCCCCTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGCCGTG	1067
Qy	1043	AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG	1102
Db	1068	ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG	1127
Qy	1103	CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG	1162
Db	1128	AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCGTGG	1187
Qy	1163	TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG	1222
Db	1188	CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG	1247
Qy	1223	ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA	1279
Db	1248	ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG	1307...
Qy	1280	GCAAAGCAGACAACCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA	1333
Db	1308	CAAGGCCAGTAACCCGCGAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG	1367
Qy	1334	CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA-----	1370
Db	1368	CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA	1427
Qy	1371	-----TGGGCCCAGCCCCAAGTTCAGCTCACCA-----	1399

Db	1428	CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCCTTAAGGTCAAGGTCTACAGCTCCAGCA	1487
Qy	1400	--ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC	1447
Db	1488	CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG	1547
Qy	1448	ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAGAACTACT	1507
Db	1548	GCACATACCTAGCGATTTCGCCCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC	1607
Qy	1508	TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT	1552
Db	1608	TCGGTTCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT	1667
Qy	1553	TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCC	1612
Db	1668	TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGCTGGTGCCCA	1727
Qy	1613	CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAG	1672
Db	1728	ATGGAGCCATTCGCCAGGGCAAGTTCACGAGATGTATCTACTCATCAACAAGGCAGAAA	1787
Qy	1673	ACGTGAGGTTGCCCCCTAGCTGGCTGTGACACCCTGCTGAGTCCCATCGTTAGCTGTGGAC	1732
Db	1788	GTACCCTGCCGCTTTCAGAAAGGACCCAGACAGTATTGAGCCCCCTCGGTGACCTGTGGAC	1847
Qy	1733	CCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA	1792
Db	1848	CCACAGGCCTCCTGCTGTGCCGCCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA	1907
Qy	1793	GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG	1852
Db	1908	GTGCCCGTGACTGGATCTTTCAGCTCAAGACCCAGGCCCCACCAGGGCCACTGGGAGGAGG	1967
Qy	1853	TGCTGCACCTGGGCGAGGAGGCGCCCTCCCACCTCTACTACTGCCAGCTGGAGGCCAGTG	1912
Db	1968	TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG	2027
Qy	1913	CCTGCTACGTCTTCACCGAGCAGCTGGGCGCCTTTGCCCTGGTGGGAGAGGCCCTCAGCG	1972
Db	2028	CCTGTACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCCTATTCCC	2087
Qy	1973	TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG	2032
Db	2088	GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCGCCCCCGCCCTCTGCACCTCCCTGG	2147
Qy	2033	AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC	2092
Db	2148	AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCTGTAGCACTGAAGGAGGTGCTGG	2207
Qy	2093	AGCTGGAGAAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTTGCACCTCAAGG	2152
Db	2208	AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG	2267
Qy	2153	ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTA	2212
Db	2268	ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCCATGCCCATTGGAGGAGCA	2327

Qy 2213 AGCTCCTTGTCTAGCTACCAGGAGATCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT 2272  
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 Db 2328 AGCTGCTGGCCAAATACCAGGAGATCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG 2387  
 Qy 2273 ACTTGCACTGCACCTTCACCCTGGAGCGTGTCTAGCCCCAGCACTAGTGACCTGGCCTGCA 2332  
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 Db 2388 CCCTCCACTGCACTTTTACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA 2447  
 Qy 2333 AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCA 2392  
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 Db 2448 AGATCTGCGTGCGGCAAGTGGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG 2507  
 Qy 2393 CCAAG---GACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCCAG 2449  
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 Db 2508 CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCTGGCAGCACTGTCACCA 2567  
 Qy 2450 CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCA 2509  
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 Db 2568 CCCAGCTGGGACCTTATGCCTTCAAGATCCCCTGTCCATCCGCCAGAAGATATGCAACA 2627  
 Qy 2510 GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC 2569  
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 Db 2628 GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687  
 Qy 2570 TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2629  
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 Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747  
 Qy 2630 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2689  
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 Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807  
 Qy 2690 GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA 2742  
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RESULT 13

US-10-087-684-3

; Sequence 3, Application US/10087684

; Publication No. US20040029116A1

; GENERAL INFORMATION:

; APPLICANT: Edinger, Shlomit R.  
 ; APPLICANT: MacDougall, John R.  
 ; APPLICANT: Millet, Isabelle  
 ; APPLICANT: Ellerman, Karen  
 ; APPLICANT: Stone, David J.  
 ; APPLICANT: Grosse, William M.  
 ; APPLICANT: Lepley, Denise M.  
 ; APPLICANT: Rieger, Daniel K.  
 ; APPLICANT: Burgess, Cathereine E.  
 ; APPLICANT: Casman, Stacie, J.  
 ; APPLICANT: Spytek, Kimberly A.  
 ; APPLICANT: Boldog, Ferenc L.  
 ; APPLICANT: Li, Li  
 ; APPLICANT: Padigaru, Muralidhara

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; APPLICANT: Mishra, Vishnu
; APPLICANT: Shenoy, Suresh.G.
; APPLICANT: Rastelli, Luca
; APPLICANT: Tchernev, Velizar T.
; APPLICANT: Vernet, Corine A.M.
; APPLICANT: Zerhusen, Bryan D.
; APPLICANT: Malyankar, Uriel M.
; APPLICANT: Guo, Xiaojia
; APPLICANT: Miller, Charles E.
; APPLICANT: Gangolli, Esha A.
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS ENCODING SAME
; FILE REFERENCE: 21402-214 CIP
; CURRENT APPLICATION NUMBER: US/10/087,684
; CURRENT FILING DATE: 2003-03-10
; PRIOR APPLICATION NUMBER: 60/253,834
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: 60/250,926
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/264,180
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/274,194
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: 60/313,656
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/327,456
; PRIOR FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 220
; SOFTWARE: CuraSeqList version 0.1
; SEQ ID NO 3
; LENGTH: 2860
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (59)..(2857)
US-10-087-684-3

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Query Match          34.0%; Score 936.2; DB 17; Length 2860;
Best Local Similarity 61.7%; Pred. No. 3.6e-230;
Matches 1662; Conservative 0; Mismatches 938; Indels 93; Gaps 7;

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Qy      143 ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCCGAGGATG 202
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Db      168 ACTCCTTCCCGTCAGCGCCAGCAGAGCCGCTGCCCTACTTCCTGCAGGAGCCACAGGACG 227

Qy      203 TGTACATCGTCAAGAACAAGCCAGTGCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGA 262
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Db      228 CCTACATTGTGAAGAACAAGCCTGTGGAGCTTCGCTGCCGCGCCTTCCCCGCCACACAGA 287

Qy      263 TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA 322
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Db      288 TCTACTTCAAGTGCAACGGCGAGTGGGTGAGCCAGAACGACCACGTACACAGGAAGGCC 347

Qy      323 CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG 382
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Db      348 TGGATGAGGCCACCGGCCTGCGGGTGCGCGAGGTGCAGATCGAGGTGTCGCGGCAGCAGG 407

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Qy 383 TCGAGAAGGTGTTCTGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG 442  
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 Db 408 TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGGCCTGGAGCTCCGCAG 467  
 Qy 443 GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC 502  
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 Db 468 GCACCACCAAGAGTCGCCGAGCCTACGTCCGCATCGCCTACCTGCGCAAGAACTTCGATC 527  
 Qy 503 AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC 562  
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 Db 528 AGGAGCCTCTGGGCAAGGAGGTGCCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCGC 587  
 Qy 563 CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT 622  
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 Db 588 CGGAGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAATGAGGATGTCATCGACCCCA 647  
 Qy 623 CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCACAGGCCCGCC 682  
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 Db 648 CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC 707  
 Qy 683 TTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCCGAGCG 742  
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 Db 708 TGTGCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAACGCCGGAGCA 767  
 Qy 743 CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTGCACGTGGACCGAGTGGTCCG 802  
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 Db 768 CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC 827  
 Qy 803 TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG 862  
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 Db 828 CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGCACCCGGACCTGCACCAACCCCG 887  
 Qy 863 CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCA 922  
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 Db 888 CTCCACTCAACGGAGGGGCGCTTCTGCGAGGGGCCAGGCATTCCAGAAGACCGCCTGCACCA 947  
 Qy 923 CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCCGGCCTGTGGGCTGG 982  
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 Db 948 CCATCTGCCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCCAGCCTGCAGCACTG 1007  
 Qy 983 ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG 1042  
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 Db 1008 AGTGTGCCCAGTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGCCGTG 1067  
 Qy 1043 AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG 1102  
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 Db 1068 ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG 1127  
 Qy 1103 CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG 1162  
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 Db 1128 AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGG 1187  
 Qy 1163 TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG 1222  
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 Db 1188 CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG 1247  
 Qy 1223 ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA 1279

Db 1248 ACATCACTGACTCATCTGCTGCCCTGACTGGTGGTTTCCACCCCGTCAACTTTAAGACGG 1307  
 Qy 1280 GCAAAGCAGACAACCCCCATCTGCT-----CACCATCCAGCCGGACCTCAGCACCACCA 1333  
 Db 1308 CAAGGCCCAGTAACCCGCAGCTCCTACACCCCTCTGTGCCTCCTGACCTGACAGCCAGCG 1367  
 Qy 1334 CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA----- 1370  
 Db 1368 CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA 1427  
 Qy 1371 -----TGGGCCCAGCCCCAAGTTCCAGCTCACCA----- 1399  
 Db 1428 CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCA 1487  
 Qy 1400 --ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC 1447  
 Db 1488 CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG 1547  
 Qy 1448 ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAGAATACTACT 1507  
 Db 1548 GCACATACCCTAGCGATTTGCGCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC 1607  
 Qy 1508 TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT 1552  
 Db 1608 TCGGTTCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT 1667  
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 Db 1728 ATGGAGCCATTCCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA 1787  
 Qy 1673 ACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGAC 1732  
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 Qy 1733 CCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA 1792  
 Db 1848 CCACAGGCCTCCTGCTGTGCCGCCCCGTATCCTACCATGCCCCACTGTGCCGAAGTCA 1907  
 Qy 1793 GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG 1852  
 Db 1908 GTGCCCCGTGACTGGATCTTTCAGCTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG 1967  
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 Db 1968 TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG 2027  
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 Db 2028 CCTGTACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCCTATTCCC 2087  
 Qy 1973 TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG 2032

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 Db 2148 AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCTGTAGCACTGAAGGAGGTGCTGG 2207  
 Qy 2093 AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACTTCAAGG 2152  
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 Db 2208 AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG 2267  
 Qy 2153 ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCAGCTCCCTGTGGAAGAGTA 2212  
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 Db 2388 CCCTCCACTGCACTTTCACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA 2447  
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 Db 2448 AGATCTGCGTGCGGCAAGTGGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG 2507  
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 Db 2508 CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCCTGGCAGCACTGTCACCA 2567  
 Qy 2450 CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCCTCATTCGGCAGAAGATAATTTCCA 2509  
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 Db 2568 CCCAGCTGGGACCTTATGCCTTCAAGATCCCCTGTCCATCCGCCAGAAGATATGCAACA 2627  
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 Db 2628 GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687  
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 Db 2688 TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC 2747  
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 Db 2748 TCTGGGAAGCTCTGCAGCAGGACGATGGGGACCTCAACAGCCTGGCGAGTGCCTTGGAGG 2807  
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 Db 2808 AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA 2860

RESULT 14

US-10-218-779-1

; Sequence 1, Application US/10218779

; Publication No. US20040029222A1

; GENERAL INFORMATION:

; APPLICANT: Edinger, Shlomit



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; APPLICANT: MacDougall, John
; APPLICANT: Millet, Isabelle
; APPLICANT: Ellerman, Karen
; APPLICANT: Stone, David
; APPLICANT: Gerlach, Valerie
; APPLICANT: Grosse, William
; APPLICANT: Alsobrook II, John
; APPLICANT: Lepley, Denise
; APPLICANT: Rieger, Daniel
; APPLICANT: Burgess, Catherine
; APPLICANT: Casman, Stacie
; APPLICANT: Spytek, Kimberly
; APPLICANT: Boldog, Ferenc
; APPLICANT: Li, Li
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Mishra, Vishnu
; APPLICANT: Patturajan, Meera
; APPLICANT: Shenoy, Suresh
; APPLICANT: Rastelli, Luca
; APPLICANT: Tchernev, Velizar
; APPLICANT: Vernet, Corine
; APPLICANT: Zerhusen, Bryan
; APPLICANT: Malyankar, Uriel
; APPLICANT: Guo, Xiaojia
; APPLICANT: Miller, Charles
; APPLICANT: Gangolli, Esha
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-214
; CURRENT APPLICATION NUMBER: US/10/218,779
; CURRENT FILING DATE: 2002-08-14
; PRIOR APPLICATION NUMBER: 60/253,834
; PRIOR FILING DATE: 2000-11-29
; PRIOR APPLICATION NUMBER: 60/250,-926
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: 60/264,180
; PRIOR FILING DATE: 2001-01-25
; PRIOR APPLICATION NUMBER: 60/313,656
; PRIOR FILING DATE: 2001-08-20
; PRIOR APPLICATION NUMBER: 60/327,456
; PRIOR FILING DATE: 2001-10-05
; NUMBER OF SEQ ID NOS: 216
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 2860
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-10-218-779-1

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Query Match          34.0%; Score 936.2; DB 17; Length 2860;
Best Local Similarity 61.7%; Pred. No. 3.6e-230;
Matches 1662; Conservative 0; Mismatches 938; Indels 93; Gaps 7;

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Qy      143 ACCCAGTGCCTGGTGCCAACCCGGACCTGCTTCCCCACTTCCTGGTGGAGCCCGAGGATG 202
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Db      168 ACTCCTTCCCGTCAGCGCCAGCAGAGCCGCTGCCCTACTTCCTGCAGGAGCCACAGGACG 227

Qy      203 TGTACATCGTCAAGAACAAAGCCAGTGCTTGCTTGTGTGCAAGGCCGTGCCCCGCCACGCAGA 262

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Db	228		
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Qy	263	TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA	322
Db	288	TCTACTTCAAGTGCAACGGCGAGTGGGTGAGCCAGAACGACCACGTACACAGGAAGGCC	347
Qy	323	CAGACGGGAGCAGTGGGCTGCCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG	382
Db	348	TGGATGAGGCCACCGGTCTGCGGGTGCGCGAGGTGCAGATCGAGGTGTGCGGGCAGCAGG	407
Qy	383	TCGAGAAGGTGTTGCGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG	442
Db	408	TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGGCCTGGAGCTCCGCGG	467
Qy	443	GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC	502
Db	468	GCACCACCAAGAGTCGCGGAGCCTACGTCCGCATCGCCTACCTGCGCAAGAACTTCGATC	527
Qy	503	AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC	562
Db	528	AGGAGCCTCTGGGCAAGGAGGTGCCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCCG	587
Qy	563	CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT	622
Db	588	CGGAGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAATGAGGATGTCATCGACCCCA	647
Qy	623	CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGCGACAGGCCCGCC	682
Db	648	CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC	707
Qy	683	TTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCGCAGCG	742
Db	708	TGTCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAACGCCGGAGCA	767
Qy	743	CCTCCGCTGCTGTCATCGTCTACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCG	802
Db	768	CCACTGCCACCGTCATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC	827
Qy	803	TCTGCAGCGCCAGCTGTGGGCGCGGCTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	862
Db	828	CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGCACCCGGACCTGCACCAACCCCG	887
Qy	863	CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCGAGAATGTCCAGAAAACAGCCTGCGCCA	922
Db	888	CTCCACTCAACGAGGGGCGCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA	947
Qy	923	CCCTGTGCCCAGTAGACGGCAGCTGGAGCCCGTGGAGCAAGTGGTCCGCTGTGGGCTGG	982
Db	948	CCATCTGCCAGTCGATGGGGCGTGGACGGAGTGGAGCAAGTGGTCAGCCTGCAGCACTG	1007
Qy	983	ACTGCACCCACTGGCGGAGCCGTGAGTGCTCTGACCCAGCACCCCGCAACGGAGGGGAGG	1042
Db	1008	AGTGTGCCCACTGGCGTAGCCGCGAGTGCATGGCGCCCCACCCAGAACGGAGGCCGTG	1067
Qy	1043	AGTGCCAGGGCACTGACCTGGACACCCGCAACTGTACCAGTGACCTCTGTGTACACAGTG	1102

Db 1068 ACTGCAGCGGGACGCTGCTCGACTCTAAGAACTGCACAGATGGGCTGTGCATGCAACTGG 1127  
 Qy 1103 CTTCTGGCCCTGAGGACGTGGCCCTCTATGTGGGCCTCATCGCCGTGGCCGTCTGCCTGG 1162  
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 Db 1128 AGGCCTCAGGGGATGCGGCGCTGTATGCGGGGCTCGTGGTGGCCATCTTCGTGGTCTGTGG 1187  
 Qy 1163 TCCTGCTGCTGCTTGTCTCATCCTCGTTTATTGCCGGAAGAAGGAGGGGCTGGACTCAG 1222  
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 Db 1188 CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG 1247  
 Qy 1223 ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA 1279  
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 Qy 1400 --ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC 1447  
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 Qy 1448 ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAGAATACT 1507  
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 Qy 1553 TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCC 1612  
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 Db 1668 TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGCTGGTGCCCA 1727  
 Qy 1613 CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCAGCTGCACAAGCCGGAAG 1672  
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 Db 1728 ATGGAGCCATTCCCCAGGGCAAGTTCTACGAGATGTATCTACTCATCAACAAGGCAGAAA 1787  
 Qy 1673 ACGTGAGGTTGCCCCCTAGCTGGCTGTCAGACCCTGCTGAGTCCCATCGTTAGCTGTGGAC 1732  
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 Db 1788 GTACCCTGCCGCTTTCAGAAGGGACCCAGACAGTATTGAGCCCCTCGGTGACCTGTGGAC 1847  
 Qy 1733 CCCCTGGCGTCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA 1792  
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 Db 1848 CCACAGGCCTCCTGCTGTGCCGCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA 1907  
 Qy 1793 GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG 1852  
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Qy 2450 CCCTGGTGGGCCCCAGTGCCTTCAAGATCCCCTTCTCATTCGGCAGAAGATAATTTCCA 2509  
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 Db 2568 CCCAGCTGGGACCTTATGCCTTCAAGATCCCACTGTCCATCCGCCAGAAGATATGCAACA 2627

Qy 2510 GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC 2569  
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 Db 2628 GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA 2687

Qy 2570 TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC 2629  
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Qy 2630 TGTGGGAGGCGCGGCACTTCCCCAACGGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG 2689  
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Query Match		34.0%;	Score 936.2;	DB 17;	Length 2860;
Best Local Similarity		61.7%;	Pred. No. 3.6e-230;		
Matches 1662;		Conservative	0;	Mismatches 938;	Indels 93; Gaps 7;
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Qy	203	TGTACATCGTCAAGAACAAGCCAGTGCCTGCTTGTGTGCAAGGCCGTGCCCGCCACGCAGA	262		
Db	228	CCTACATTGTGAAGAACAAGCCTGTGGAGCTTCGCTGCCGCGCCTTCCCCGCCACACAGA	287		
Qy	263	TCTTCTTCAAGTGCAACGGGGAGTGGGTGCGCCAGGTGGACCACGTGATCGAGCGCAGCA	322		
Db	288	TCTACTTCAAGTGCAACGGCGAGTGGGTGAGCCAGAACGACCACGTGACACAGGAAGGCC	347		
Qy	323	CAGACGGGAGCAGTGGGCTGCCACCATGGAGGTCCGCATTAATGTCTCAAGGCAGCAGG	382		
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Qy	383	TCGAGAAGGTGTTCCGGGCTGGAGGAATACTGGTGCCAGTGCGTGGCATGGAGCTCCTCGG	442		
Db	408	TGGAGGAGCTCTTTGGGCTGGAGGATTACTGGTGCCAGTGCGTGGCTGGAGCTCCGCAG	467		
Qy	443	GCACCACCAAGAGTCAGAAGGCCTACATCCGCATAGCCAGATTGCGCAAGAACTTCGAGC	502		
Db	468	GCACCACCAAGAGTCGCCGAGCCTACGTCCGCATCGCTACCTGCGCAAGAACTTCGATC	527		
Qy	503	AGGAGCCGCTGGCCAAGGAGGTGTCCCTGGAGCAGGGCATCGTGCTGCCCTGCCGTCCAC	562		
Db	528	AGGAGCCTCTGGGCAAGGAGGTGCCCTGGACCATGAGGTTCTCCTGCAGTGCCGCCCCGC	587		
Qy	563	CGGAGGGCATCCCTCCAGCCGAGGTGGAGTGGCTCCGGAACGAGGACCTGGTGGACCCGT	622		
Db	588	CGGAGGGGGTGCCTGTGGCCGAGGTGGAATGGCTCAAGAATGAGGATGTCATCGACCCCA	647		
Qy	623	CCCTGGACCCCAATGTATACATCACGCGGGAGCACAGCCTGGTGGTGC GACAGGCCCGCC	682		
Db	648	CCCAGGACACCAACTTCCTGCTCACCATCGACCACAACCTCATCATCCGCCAGGCCCGCC	707		
Qy	683	TTGCTGACACGGCCAACTACACCTGCGTGGCCAAGAACATCGTGGCACGTGCGCGCAGCG	742		
Db	708	TGTCGGACACTGCCAACTATACCTGCGTGGCCAAGAACATCGTGGCCAAGACGCCGAGCA	767		
Qy	743	CCTCCGCTGCTGTATCGTCTACGTGAACGGTGGGTGGTTCGACGTGGACCGAGTGGTCCG	802		
Db	768	CCACTGCCACCGTATCGTCTACGTGAATGGCGGCTGGTCCAGCTGGGCAGAGTGGTCAC	827		
Qy	803	TCTGCAGCGCCAGCTGTGGGCGCGGTGGCAGAAACGGAGCCGGAGCTGCACCAACCCGG	862		
Db	828	CCTGCTCCAACCGCTGTGGCCGAGGCTGGCAGAAGCGACCCGGACCTGCACCAACCCCG	887		
Qy	863	CGCCTCTCAACGGGGGCGCTTTCTGTGAGGGGCAGAAATGTCCAGAAAACAGCCTGCGCCA	922		
Db	888	CTCCACTCAACGGAGGGGCGCTTCTGCGAGGGCCAGGCATTCCAGAAGACCGCCTGCACCA	947		

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 Db 1188 CAATCCTCATGGCGGTGGGGGTGGTGGTGTACCGCCGCAACTGCCGTGACTTCGACACAG 1247

Qy 1223 ATGTGGCTGACTCGTCCATT---CTCACCTCAGGCTTCCAGCCCGTCAGCATCAAGCCCA 1279  
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Qy 1334 CCACCACCTACCAGGGCAGTCTCTGTCCCCGGCAGGA----- 1370  
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 Db 1368 CCGGCATCTACCGCGGACCCGTGTATGCCCTGCAGGACTCCACCGACAAAATCCCCATGA 1427

Qy 1371 -----TGGGCCCAGCCCCAAGTTCCAGCTCACCA----- 1399  
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 Db 1428 CCAACTCTCCTCTGCTGGACCCCTTACCCAGCCTTAAGGTCAAGGTCTACAGCTCCAGCA 1487

Qy 1400 --ATGGGCACCTGCTCAGCCCCCTGGGTGGCGGCCGCCACAC-----ACTGCACC 1447  
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 Db 1488 CCACGGGCTCTGGGCCAGGCCTGGCAGATGGGGCTGACCTGCTGGGGGTCTTGCCGCCTG 1547

Qy 1448 ACAGCTCTCCACCTCTGAGGCCGAGGAGTTCGTCTCCCGCCTCTCCACCCAGAATACT 1507  
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 Db 1548 GCACATACCCTAGCGATTTGCCCCGGGACACCCACTTCCTGCACCTGCGCAGCGCCAGCC 1607

Qy 1508 TCCGCTC-----CCTGCCCCGAGGCACCAGCAACATGACCTATGGGACCT 1552  
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 Db 1608 TCGGTTCCCAGCAGCTCTTGGGCCTGCCCCGAGACCCAGGGAGCAGCGTCAGCGGCACCT 1667

Qy 1553 TCAACTTCCTCGGGGGCCGGCTGATGATCCCTAATACAGGTATCAGCCTCCTCATCCCCC 1612  
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 Db 1668 TTGGCTGCCTGGGTGGGAGGCTCAGCATCCCCGGCACAGGGGTGAGCTTGCTGGTGCCCA 1727

Qy 1613 CAGATGCCATACCCCGAGGGAAGATCTATGAGATCTACCTCACGCTGCACAAGCCGGAAG 1672  
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Qy	1673	ACGTGAGGTTGCCCTAGCTGGCTGTCAGACCCCTGCTGAGTCCCATCGTTAGCTGTGGAC	1732
Db	1788	GTACCCTGCCGCTTTTCAAGGGACCCAGACAGTATTGAGCCCCTCGGTGACCTGTGGAC	1847
Qy	1733	CCCCTGGCGTCCTGCTCACCCGGCCAGTCATCCTGGCTATGGACCACTGTGGGGAGCCCA	1792
Db	1848	CCACAGGCCCTCCTGCTGTGCCGCCCGTCATCCTCACCATGCCCCACTGTGCCGAAGTCA	1907
Qy	1793	GCCCTGACAGCTGGAGCCTGCGCCTCAAAAAGCAGTCGTGCGAGGGCAGCTGGGAGGATG	1852
Db	1908	GTGCCCCGTGACTGGATCTTTTCAAGTCAAGACCCAGGCCACCAGGGCCACTGGGAGGAGG	1967
Qy	1853	TGCTGCACCTGGGCGAGGAGGCGCCCTCCACCTCTACTACTGCCAGCTGGAGGCCAGTG	1912
Db	1968	TGGTGACCCTGGATGAGGAGACCCTGAACACACCCTGCTACTGCCAGCTGGAGCCCAGGG	2027
Qy	1913	CCTGCTACGTCTTCACCGAGCAGCTGGGCGCTTTGCCCTGGTGGGAGAGGCCCTCAGCG	1972
Db	2028	CCTGTACATCCTGCTGGACCAGCTGGGCACCTACGTGTTACGGGCGAGTCTATTCCC	2087
Qy	1973	TGGCTGCCGCCAAGCGCCTCAAGCTGCTTCTGTTTGCGCCGGTGGCCTGCACCTCCCTCG	2032
Db	2088	GCTCAGCAGTCAAGCGGCTCCAGCTGGCCGTCTTCGCCCCCGCCCTCTGCACCTCCCTGG	2147
Qy	2033	AGTACAACATCCGGGTCTACTGCCTGCATGACACCCACGATGCACTCAAGGAGGTGGTGC	2092
Db	2148	AGTACAGCCTCCGGGTCTACTGCCTGGAGGACACGCCCTGTAGCACTGAAGGAGGTGCTGG	2207
Qy	2093	AGCTGGAGAAGCAGCTGGGGGGACAGCTGATCCAGGAGCCACGGGTCTGCACCTTCAAGG	2152
Db	2208	AGCTGGAGCGGACTCTGGGCGGATACTTGGTGGAGGAGCCGAAACCGCTAATGTTCAAGG	2267
Qy	2153	ACAGTTACCACAACCTGCGCCTATCCATCCACGATGTGCCCAGCTCCCTGTGGAAGAGTA	2212
Db	2268	ACAGTTACCACAACCTGCGCCTCTCCCTCCATGACCTCCCCCATGCCCATTTGGAGGAGCA	2327
Qy	2213	AGCTCCTTGTGAGCTACCAGGAGATCCCCCTTTTATCACATCTGGAATGGCACGCAGCGGT	2272
Db	2328	AGCTGCTGGCCAAATACCAGGAGATCCCCCTTCTATCACATTTGGAGTGGCAGCCAGAAGG	2387
Qy	2273	ACTTGCACTGCACCTTCACCCTGGAGCGTGTGAGCCCCAGCACTAGTGACCTGGCCTGCA	2332
Db	2388	CCCTCCACTGCACCTTTCACCCTGGAGAGGCACAGCTTGGCCTCCACAGAGCTCACCTGCA	2447
Qy	2333	AGCTGTGGGTGTGGCAGGTGGAGGGCGACGGGCAGAGCTTCAGCATCAACTTCAACATCA	2392
Db	2448	AGATCTGCGTGCGGCAAGTGAAGGGGAGGGCCAGATATTCCAGCTGCATACCACTCTGG	2507
Qy	2393	CCAAG---GACACAAGGTTTGCTGAGCTGCTGGCTCTGGAGAGTGAAGCGGGGGTCCAG	2449
Db	2508	CAGAGACACCTGCTGGCTCCCTGGACACTCTCTGCTCTGCCCCCTGGCAGCACTGTCACCA	2567
Qy	2450	CCCTGGTGGGCCCCAGTGCCCTTCAAGATCCCCCTTCCATTCGGCAGAAGATAATTTC	2509
Db	2568	CCCAGCTGGGACCTTATGCCTTCAAGATCCCCTGTCCATCCGCCAGAAGATATGCAACA	2627
Qy	2510	GCCTGGACCCACCCTGTAGGCGGGGTGCCGACTGGCGGACTCTGGCCCAGAACTCCACC	2569



Db	2628	GCCTAGATGCCCCCAACTCACGGGGCAATGACTGGCGGATGTTAGCACAGAAGCTCTCTA	2687
Qy	2570	TGGACAGCCATCTCAGCTTCTTTGCCTCCAAGCCCAGCCCCACAGCCATGATCCTCAACC	2629
Db	2688	TGGACCGGTACCTGAATTACTTTGCCACCAAAGCGAGCCCCACGGGTGTGATCCTGGACC	2747
Qy	2630	TGTGGGAGGCGCGGCACTTCCCCAAGCGCAACCTCAGCCAGCTGGCTGCAGCAGTGGCTG	2689
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Qy	2690	GACTGGGCCAGCCAGACGCTGGCCTCTTCACAGTGTCTGGAGGCTGAGTGCTGA	2742
Db	2808	AGATGGGCAAGAGTGAGATGCTGGTGGCTGTGGCCACCGACGGGGACTGCTGA	2860

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Job time : 1506.37 secs